



STIC Search Report

Biotech-Chem Library

To: Fozia Hamud
Location: rem/4d64/4c70
Art Unit: 1647
Wednesday, July 07, 2004

From: Beverly Shears
Location: Remsen Bldg.
RM 1A54
Phone: 571-272-2528

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Search Notes

Case Serial Numbers 10/076260 and 10/030226 attached.

GenCore version 5.1.6
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OW protein - protein search, using sw model

Run on: June 30, 2004, 17:14:53 ; Search time 80 seconds
(without alignments)
1222.018 Million cell updates/sec

Title: US-10-076-260-2

Perfect score: 1853

Sequence: 1 MYNGSCRIEIGTISQWMP.....ANSFQSQDQWPHIVEMH 346

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1586107 seqs, 282547505 residues

Total number of hits satisfying chosen parameters: 1586107

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum March 0%

Maximum March 100%

Listing first 45 summaries

Database : A_Geneseq_29Jan04:*

- 1: Geneseq1990s:*
- 2: Geneseq1990s:*
- 3: Geneseq2000s:*
- 4: Geneseq2000s:*
- 5: Geneseq2002s:*
- 6: Geneseq2003as:*
- 7: Geneseq2003bs:*
- 8: Geneseq2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1853	100.0	346	4	Ag80968 Human ngp
2	1853	100.0	346	4	Abb44522 Human GPC
3	1853	100.0	346	4	Aau06197 Novel hum
4	1853	100.0	346	4	Aau04373 Human G-p
5	1853	100.0	346	5	Aae16172 Human G-p
6	1853	100.0	346	5	Aau11401 HM74-like
7	1853	100.0	346	5	Aae17077 Human G-p
8	1853	100.0	346	5	Abb8596 Human lip
9	1853	100.0	346	5	Abg93786 Human G-p
10	1853	100.0	346	5	Abp95599 Human GPC
11	1853	100.0	346	5	Aao14788 Human pur
12	1853	100.0	346	5	Aae24354 Human G p
13	1853	100.0	346	6	Abp81747 Human che
14	1853	100.0	346	6	Abp56751 Human GAV
15	1853	100.0	346	6	Aao26511 Human G-p
16	1853	100.0	346	6	Abp58453 Human res
17	1853	100.0	346	7	Adc46872 Human TA-
18	1853	100.0	346	7	Abw00810 Human GPC
19	1853	100.0	346	7	Ade40282 Human NOV
20	1853	100.0	346	7	Ade40272 Human NOV
21	1853	100.0	346	7	Ade40278 Human NOV
22	1853	100.0	352	7	Ade40286 Human NOV
23	1849	99.8	346	6	Abb82502 Human TGR
24	1846	99.6	346	7	Ade40274 Human NOV
25	1839	99.2	346	4	Abb44523 Human GPC

ALIGNMENTS

RESULT 1

Ag80968
ID Ag80968 standard; protein; 346 AA.

XX AC Ag80968;

XX XX 28-AUG-2001 (first entry)

XX XX Human ngPCR11 #2.

XX G protein-coupled receptor; ngPCR; seven transmembrane receptor;
XX signal transduction; schizophrenia; thyroid disorder; renal failure;
XX rheumatoid arthritis; CNS disorder; infection; metabolic disease;
XX cardiovascular disease; proliferative disorder; hormonal disorder;
XX neurological disorder; neuronal disorder; Alzheimer's disease; cancer;
XX attention deficit-hyperactivity disorder/attention deficit disorder;
XX Parkinson's disease; migraine; senile dementia; inflammatory disease;
XX rheumatoid arthritis; autoimmune disorder; respiratory ailment;
XX neuroprotective.

XX OS Homo sapiens.

XX XX WO200136473-A2;

XX PD 25-MAY-2001. /

XX PF 16-NOV-2000; 2000WO-US031581.

XX XX 16-NOV-1999; 99US-0165838P.

XX PR 17-NOV-1999; 99US-0166071P.

XX PR 19-NOV-1999; 99US-0166678P.

XX PR 28-DEC-1999; 99US-0173396P.

XX PR 22-FEB-2000; 2000US-0184129P.

XX PR 28-FEB-2000; 2000US-0185421P.

XX PR 02-MAR-2000; 2000US-0185554P.

XX PR 03-MAR-2000; 2000US-0186811P.

XX PR 17-MAR-2000; 2000US-0188114P.

XX PR 21-MAR-2000; 2000US-0190800P.

XX PR 02-APR-2000; 2000US-0198568P.

XX PR 08-MAY-2000; 2000US-0203119P.

XX PR 25-MAY-2000; 2000US-0207094P.

(PHAA } PHARMACIA & UPJOHN CO.

XX PA Vogeli G, Wood LS, Parodi LA, Hiebsch RR, Lind P, Slightom J;

XX PI

PI Schellin KA, Kaytes PS, Bannigan CM, Ruff V, Sejlitz T, Ruff RM;
 XX WPI; 2001-389826/41.
 DR N-PSDB; AAH51038.
 XX
 PT New G protein-coupled receptor (ngPCR-x) and its encoding polynucleotide
 XX useful for diagnosing and treating e.g. schizophrenia.
 PS Claim 37; Page 89; 261pp; English.
 XX
 CC The present invention relates to novel G protein-coupled receptors
 CC {ngPCRx; where x is 1, 3, 4, 5, 9, 11, 12, 14-18, 20, 21, 22, 24, 27, 28,
 CC 31-38, 40, 41, 53-60} and their coding sequences. The present sequence is
 CC one such G protein-coupled receptor. GPCRs are also known as seven
 CC transmembrane receptors and function in signal transduction. The ngPCRx
 CC coding sequences are useful for screening a human to diagnose a disorder
 CC affecting the brain or a genetic predisposition, specifically
 CC schizophrenia. ngPCRx are useful for identifying compounds useful for
 CC treating schizophrenia. Detection of ngPCRx in a sample is useful as a
 CC diagnostic tool for diseases or disorders e.g. thyroid disorders, renal
 CC failure, rheumatoid arthritis, CNS disorders, infectious such as HIV-1,
 CC metabolic and cardiovascular diseases, proliferative disorders and
 CC hormonal disorders. Modulators of ngPCRx activity have the utility for
 CC treating neurological disorders, including schizophrenia, ADHD/ADD
 CC (attention deficit-hyperactivity disorder/attention deficit disorder),
 CC and neuronal disorders such as Alzheimer's disease, Parkinson's disease,
 CC migraine and senile dementia. Additional disorders include inflammatory
 CC conditions (e.g. Crohn's disease), rheumatoid arthritis, autoimmune
 CC disorders, cancers, respiratory ailments such as asthma, and inflammatory
 CC diseases e.g. inflammatory bowel disease
 XX
 SQ Sequence 346 AA;

Query Match 100.0%; Score 1853; DB 4; Length 346;
 Best Local Similarity 100.0%; Pred. No. 5.9e-199;
 Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MYNGSCRRTEGTISQVMPGLIIVAFVLGALGNVVALCGFCFHMKTWKSTVYLFNLVA 60
 DB 1 MYNGSCRRTEGTISQVMPGLIIVAFVLGALGNVVALCGFCFHMKTWKSTVYLFNLVA 60
 QY 61 DFLLMICLPFRDYILRRHMAFGDIPCRVGLFTLANNRAGSIVFLTVAAADRYFKVWHP 120
 DB 61 DFLLMICLPFRDYILRRHMAFGDIPCRVGLFTLANNRAGSIVFLTVAAADRYFKVWHP 120
 QY 121 HAVNTISTRVAAGIVCTLMALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180
 DB 121 HAVNTISTRVAAGIVCTLMALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180
 QY 181 FOLEFPMPLGIILFCSFKIWSLRRRQOLARQRMKKATRFIMVVAIVITCYLPSVSAR 240
 DB 181 FOLEFPMPLGIILFCSFKIWSLRRRQOLARQRMKKATRFIMVVAIVITCYLPSVSAR 240
 QY 241 LYFLMTVPSSACDPSVHGALHITLSFTYVNSMLDPLVYFSSFPFKYKLIKICSLKPK 300
 DB 241 LYFLMTVPSSACDPSVHGALHITLSFTYVNSMLDPLVYFSSFPFKYKLIKICSLKPK 300
 QY 301 QFGHSKTQPEEMPISNLGRSCISVANSFQSDGQWDPHIVEH 346
 DB 301 QFGHSKTQPEEMPISNLGRSCISVANSFQSDGQWDPHIVEH 346

RESULT 2

ABB44522
 ID ABB44522 standard; protein; 346 AA.

XX ABB44522;

XX 28-JAN-2002 (first entry)

XX Human GPCR1a polypeptide SEQ ID NO 2.

XX Human; GPCR; G-coupled protein-receptor; cardiant; antiarteriosclerotic;

KW anabolic; cytostatic; antiviral; gene therapy; cardiomyopathy; obesity;
 KW anorexia; diabetes; osteoporosis; Crohn's disease; multiple sclerosis;
 KW asthma; Alzheimer's disease; Parkinson's disorder; Huntington's disease;
 KW infection; human immunodeficiency virus; HIV.
 XX
 OS Homo sapiens.
 XX
 XX WO200174904-A2.
 XX
 XX 11-OCT-2001.
 XX
 XX 30-MAR-2001; 2001WO-US010241.
 XX
 XX 31-MAR-2000; 2000US-0193664P.
 XX 05-APR-2000; 2000US-0194614P.
 XX 06-APR-2000; 2000US-0195063P.
 XX 06-APR-2000; 2000US-0195066P.
 XX 06-APR-2000; 2000US-0195067P.
 XX 06-APR-2000; 2000US-0195068P.
 XX 06-APR-2000; 2000US-0195069P.
 XX 06-APR-2000; 2000US-0195070P.
 XX 06-APR-2000; 2000US-0195510P.
 XX 21-JUL-2000; 2000US-0219855P.
 XX 27-JUL-2000; 2000US-0221284P.
 XX 28-JUL-2000; 2000US-0221325P.
 XX 11-AUG-2000; 2000US-0224588P.
 XX 11-OCT-2000; 2000US-0239613P.
 XX 18-JAN-2001; 2001US-0262508P.
 XX 23-JAN-2001; 2001US-0263433P.
 XX 30-JAN-2001; 2001US-0263604P.
 XX 30-JAN-2001; 2001US-0265161P.
 XX 29-MAR-2001; 2001US-00823172.
 XX
 XX {CURA-} CURAGEN CORP.

XX Majumder K, Vernet CAM, Casman SJ, Wolenc AR, Spaderna SK;
 XX Padigaru M, Mishnu VS, Tchernev VT, Spytek KA, Li L, Baumgartner JC;
 XX Gusev VY;

XX WPI; 2001-639351/73.

XX N-PSDB; ABA81529, ABA81530.

XX New human G-protein coupled receptor X, GPCRx, polypeptide useful in
 XX treatment or prevention of GPCRx associated disorders e.g. cardiomyopathy
 XX or arteriosclerosis, and to screen for antagonists and agonists useful
 XX therapeutically.

XX Claim 1; Page 8; 157pp; English.

XX The invention relates to nucleic acid sequences (ABA81529-ABA81552) that
 CC encode G-coupled protein-receptor related polypeptides (ABB44522-
 CC ABB44543). The isolated polypeptide having a sequence differing by no
 CC more than 15 % of amino acid residues from one of 22 amino acid sequences
 CC (or mature forms of the sequences), fully defined in the specification
 CC and corresponding to human G-protein coupled receptor X (GPCRX)
 CC polypeptides. The polypeptides have potential cardiant.
 CC antiarteriosclerotic, anabolic, cytostatic and antiviral activity. The
 CC polypeptides can be administered therapeutically, especially using gene
 CC therapy and expressing the encoding DNA in vivo, to treat or prevent
 CC GPCRx-associated disorders, especially in humans. For example, they can
 CC be used to treat/prevent cardiomyopathy, arteriosclerosis, disorders
 CC related to signal processing and metabolic pathway modulation (e.g.
 CC obesity, anorexia), diabetes, osteoporosis, Crohn's disease, multiple
 CC sclerosis, asthma, cancers, neurodegenerative disorders (e.g. Alzheimer's
 CC disease, Parkinson's disorder, Huntington's disease), immune disorders,
 CC haematopoietic disorders, developmental diseases, neurological disorders,
 CC bacterial, fungal, protozoal and viral infections (e.g. with human
 CC immunodeficiency virus (HIV-1 or HIV-2)). They can be used diagnostically
 CC to determine the presence of or predisposition to a disease associated
 CC with altered levels of the polypeptide in mammals (especially humans) by
 CC detecting alterations in polypeptide expression levels relative to
 CC control samples. They are useful to identify agents binding polypeptide
 CC (e.g. cellular receptors or downstream effectors) and/or agents

61	Db	DFLEMICLPFFTOYYLRRRRHAFGDPICRVGLFTLAMNRAGSIVFTVVAADRYEPKVHP	120
121	Qy	HHAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLVQETAVSCSEPTIMESANGWHDM	180
121	Db	HHAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLVQETAVSCSEPTIMESANGWHDM	180
181	Qy	FOLEFFFMPLGIILFCSFKIVSLRRRQQLARQARMKKATRFIMVVAIFITCYLPSVSAR	240
181	Db	FOLEFFFMPLGIILFCSFKIVSLRRRQQLARQARMKKATRFIMVVAIFITCYLPSVSAR	240
241	Qy	LYFLWTVPSSACDPSVGHALHITISFTYWNSSLDPVLYVPSESPFPKFNKLKICSLKPK	300
241	Db	LYFLWTVPSSACDPSVGHALHITISFTYWNSSLDPVLYVPSESPFPKFNKLKICSLKPK	300
301	Qy	QPGHSKTORPEMPTISNLGRSCISVANSFQSDGQMDPHIVVWH	346
301	Db	QPGHSKTORPEMPTISNLGRSCISVANSFQSDGQMDPHIVVWH	346

Search completed: June 30, 2004, 17:21:53
Job time : 84 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: July 3, 2004, 03:46:36 ; Search time 516 seconds
(without alignments)
8545.794 Million cell updates/sec

Title: US-10-076-260-1

Perfect score: 1038

Sequence: 1 agtacaacgggtcgctg.....ccacattgtgagtgccac 1038

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 3373863 seqs, 2124099041 residues

Total number of hits satisfying chosen parameters: 6747726

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : N_Geneseq_29Jan04.*

- 1: Geneseqn1980s.*
- 2: Geneseqn1990s.*
- 3: Geneseqn2000s.*
- 4: Geneseqn2001as.*
- 5: Geneseqn2001bs.*
- 6: Geneseqn2002s.*
- 7: Geneseqn2003as.*
- 8: Geneseqn2003bs.*
- 9: Geneseqn2003cs.*
- 10: Geneseqn2004s.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query %	Length	DB ID	Description
1	1038	100.0	1038	6	ABA99236 Human G p
2	1038	100.0	1038	7	AAL53846 DNA of hu
3	1038	100.0	1041	4	AAL51008 Human NGP
4	1038	100.0	1041	5	AAS12581
5	1038	100.0	1041	5	AAS07946 Human ENCO
6	1038	100.0	1041	6	AAD27497 Human G-p
7	1038	100.0	1041	6	ABS70241 DNA ENCO
8	1038	100.0	1041	6	ABZ42873 Human GPC
9	1038	100.0	1041	6	AAL42499 Human pur
10	1038	100.0	1041	7	ABZ22648 Human GAV
11	1038	100.0	1041	7	ABZ57957 Human res
12	1038	100.0	1041	9	AAD61654 Human GPC
13	1038	100.0	1050	4	ABA81530 Human GPC
14	1038	100.0	1050	4	ABA81529 Human GPC
15	1038	100.0	1050	9	ADE40271 Human NOV
16	1038	100.0	1057	9	ADE40285 Human NOV
17	1038	100.0	1057	9	ADE40277 Human NOV
18	1038	100.0	1060	9	ADE40281 Human NOV
19	1038	100.0	1083	6	AAD26371 Human G-p
20	1038	100.0	1372	7	ABZ42592 Human che
21	1038	100.0	1730	6	AAS18501 cDNA ENCO
22	1038	100.0	2331	5	AAS12582 Gene ENCO
23	1038	100.0	2345	9	ADC46871 Human TA-

24	1038	100.0	3612	9	ADC46870	Adc46870 Human TA-
25	1036.4	99.8	1104	9	ADE40273	Ade40273 Human NOV
26	1036.4	99.8	1194	6	AAD39181	Aad39181 Human G p
27	1034.8	99.7	1041	7	ABV73367	Abv73367 Human TGR
28	1034.8	99.7	1104	4	ABA81531	Ab81531 Human GPC
29	1034.8	99.7	1104	9	ADE40275	Ade40275 Human NOV
30	1014	97.7	2580	6	ABQ83131	Abq83131 Human G p
31	942.4	90.8	961	9	ADE40283	Ade40283 Human NOV
32	942	90.8	961	9	ADE40287	Ade40287 Human NOV
33	942	90.8	961	9	ADE40279	Ade40279 Human NOV
34	888	85.5	888	4	AAH50974	Aah50974 Human NGP
35	888	85.5	888	6	ABS70207	Ab570207 DNA ENCO
36	724.4	69.8	1668	7	AAL53848	Aal53848 DNA of ra
37	723.4	69.7	742	9	ADE40289	Ade40289 Human NOV
38	722.8	69.6	3251	7	AAL53847	Aal53847 DNA of mc
39	627.4	60.4	646	9	ADE40291	Ade40291 Human NOV
40	627.4	60.4	646	9	ADE40297	Ade40297 Human NOV
41	402.8	38.8	1254	7	ABS57853	Ab57853 Rabbit cD
42	372.4	35.9	1174	6	ABK47759	Abk47759 cDNA ENCO
43	372.4	35.9	1361	2	AAX16671	Aax16671 G-protein
44	369.2	35.6	1092	5	AAS07952	Aas07952 Human CDN
45	369.2	35.6	1492	9	ADC86214	Adc86214 Human GPC

ALIGNMENTS

RESULT 1
ABA99236

ID ABA99236 standard; DNA; 1038 BP.

AC ABA99236;

DT 01-JUL-2002 (first entry)

XX Human G protein-coupled receptor protein TGR13 encoding sequence.

DE Antiinflammatory; anorectic; obesity; inflammation; gene therapy; human;
KW G protein-coupled receptor protein TGR13; ss.

XX Homo sapiens.

PH Key Location/Qualifiers
FT CDS 1..1038
FT /tag= a
FT /product= "G-protein-coupled receptor protein TGR13"
FT /partial
FT /note= "no stop codon"

XX WC200202767-A1.

XX 10-JAN-2002.

XX 02-JUL-2001; 2001MO-JP005711.

XX 04-JUL-2000; 2000JP-00206860.

XX 31-JUL-2000; 2000JP-00235274.

XX (TAKE) TAKEDA CHEM IND LTD.

XX Shibata S, Horikoshi K, Taniyama Y, Shintani Y, Miyajima N;

XX WPI; 2002-164535/21.

XX P-PSDB; ABB08596.

XX New human lipocyte-originated G protein-coupled receptor proteins TGR13
FT and encoding DNAs, for developing drugs to treat obesity and
FT inflammations, including gene therapy.

XX Claim 6; Page 94-95; 101pp; Japanese.

XX This invention relates to a human lipocyte-originated G protein-coupled
CC receptor proteins TGR13, thought to be antiinflammatory and anorectic in

CC their action. The proteins and encoded DNAs are for use in developing
CC drugs to treat obesity and inflammation, including gene therapy. The
CC present sequence represents the human lipocyte-originated G protein-
CC coupled receptor protein TGR13 encoding sequence
XX
SQ Sequence 1038 BP; 207 A; 294 C; 277 G; 260 T; 0 U; 0 Other;
Query Match 100.0%; Score 1038; DB 6; Length 1038;
Best Local Similarity 100.0%; Pred. No. 5e-287;
Matches 1038; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ATGTACAAACGGTGTCTGCTGCGCATCGAGGGGACACCACTCTCCAGGTGATCCGCGG 60
Db 1 ATGTACAAACGGTGTCTGCTGCGCATCGAGGGGACACCACTCTCCAGGTGATCCGCGG 60
QY 61 CTGCTCAITGCGCTTGTGCTGGGCGCACTAGGCAATGGGTCGCTGTGGTTTC 120
Db 61 CTGCTCAITGCGCTTGTGCTGGGCGCACTAGGCAATGGGTCGCTGTGGTTTC 120
QY 121 TGCTTCCACATGAAGACTGGAGCCCGACGACCTGTTTACCTTTTCAATTTGGCCGTGGCT 180
Db 121 TGCTTCCACATGAAGACTGGAGCCCGACGACCTGTTTACCTTTTCAATTTGGCCGTGGCT 180
QY 181 GATTTCTCTTATGATCTGCTGCTGCTTTTGGACAGACTATTACCTCAGAGGTAGACAC 240
Db 181 GATTTCTCTTATGATCTGCTGCTGCTTTTGGACAGACTATTACCTCAGAGGTAGACAC 240
QY 241 TGGGCTTTTGGGACATTCCTCCGAGTGGGCTCTTCAGTTGGCGATGCACAGGGCC 300
Db 241 TGGGCTTTTGGGACATTCCTCCGAGTGGGCTCTTCAGTTGGCGATGCACAGGGCC 300
QY 301 GGAGATCGTGTTCCTTACGTTGGTGGCTGCGACAGGTATTTCMAAGTGGTCCACCCC 360
Db 301 GGAGATCGTGTTCCTTACGTTGGTGGCTGCGACAGGTATTTCMAAGTGGTCCACCCC 360
QY 361 CACACGGGTGACATATCTCCACGGGTGGCGCTGGCATGCTGCTGCTGCTGCTGCTG 420
Db 361 CACACGGGTGACATATCTCCACGGGTGGCGCTGGCATGCTGCTGCTGCTGCTGCTG 420
QY 421 GCGCTGTCATCTGGGACAGTGTATCTTTGCTGGAGAACCATCTCTCGCTGCAAGAG 480
Db 421 GCGCTGTCATCTGGGACAGTGTATCTTTGCTGGAGAACCATCTCTCGCTGCAAGAG 480
QY 481 AGGCGCTCTCTGTGAGAGCTTCATGAGTGGCCCAATGCTGCGATGACATCATG 540
Db 481 AGGCGCTCTCTGTGAGAGCTTCATGAGTGGCCCAATGCTGCGATGACATCATG 540
QY 541 TTCCAGCTGGATCTTTATGCGCTGCGCATCATCTTATTTGCTCTTCAAGATTGTT 600
Db 541 TTCCAGCTGGATCTTTATGCGCTGCGCATCATCTTATTTGCTCTTCAAGATTGTT 600
QY 601 TGGAGCTGAGCGGAGCGAGCTGGCCAGACAGGCTCGGATGAAGAGGCGACCCGG 660
Db 601 TGGAGCTGAGCGGAGCGAGCTGGCCAGACAGGCTCGGATGAAGAGGCGACCCGG 660
QY 661 TTCATCATGCTGGTGGCAATGTTGTTTCATCATGCTACCTGCCAGCGTGTCTGTAGA 720
Db 661 TTCATCATGCTGGTGGCAATGTTGTTTCATCATGCTACCTGCCAGCGTGTCTGTAGA 720
QY 721 CTCTATTTCTGAGCGGTGCTGAGTGGCTGGATCCCTCTGTCATCGGGGCCCTG 780
Db 721 CTCTATTTCTGAGCGGTGCTGAGTGGCTGGATCCCTCTGTCATCGGGGCCCTG 780
QY 781 CACATAACCTCAGCTTTCACCTACATGAACAGCATGCTGATCCCTGCTGCTGCTGCTG 840
Db 781 CACATAACCTCAGCTTTCACCTACATGAACAGCATGCTGATCCCTGCTGCTGCTGCTG 840
QY 841 TCAGGCCCTCTTCCCAAAATTCATACACAGCTCAAAATCTGCACTGCAACCCCAAG 900
Db 841 TCAGGCCCTCTTCCCAAAATTCATACACAGCTCAAAATCTGCACTGCAACCCCAAG 900
QY 901 CAGCCAGGACACTCAAAACACAGGCGGAGAGTGCATTCGAACTCGGTGCG 960
Db 901 CAGCCAGGACACTCAAAACACAGGCGGAGAGTGCATTCGAACTCGGTGCG 960

Db 901 CAGCCAGGACACTCAAAACACAGGCGGAGAGTGCATTCGAACTCGGTGCG 960
QY 961 AGGAGTTGCATCAGTGGGCAAAATAGTTTCCAAAGCCAGTCTGATGGGCAATGGGATCCC 1020
Db 961 AGGAGTTGCATCAGTGGGCAAAATAGTTTCCAAAGCCAGTCTGATGGGCAATGGGATCCC 1020
QY 1021 CACATTGTTGAGTGGCAC 1038
Db 1021 CACATTGTTGAGTGGCAC 1038
RESULT 2
AAL53846
ID AAL53846 standard; DNA; 1038 BP.
XX AAL53846;
AC AAL53846;
XX
DT 13-FEB-2003 (first entry)
XX
DS DNA of human G-Protein Coupled Receptor gene.
XX
KW Anorectic; antidiabetic; antilipemic; antiasthmatic; antiinflammatory;
KW antiallergic; antianginal; nephrotropic; hepatotropic; immunosuppressive;
KW virucide; G-Protein-agonist; G-Protein-antagonist; dyslipidaemia; GPCR;
KW G-Protein Coupled Receptor; obesity; diabetes; asthma; bronchitis;
KW allergy; angina; glomerulonephritis; hepatitis; allograft rejection;
KW human; gene; ds.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT CDS 1..1038
FT FT /*tag= a
FT FT /partial
FT FT /product= "Human GPCR protein"
FT FT /note= "No stop codon"
XX
PN WC200283736-A2.
XX
PD 24-OCT-2002.
XX
PF 14-FEB-2002; 2002WO-US004397.
XX
PR 14-FEB-2001; 2001US-0269040P.
XX
PA (AMGE-) AMGEN INC.
XX
PI Elliott SG, Rogers N, Busse LA;
XX WPI; 2003-075524/07.
XX P-PSDB; AA026511.
XX
PT New GPCR polypeptide and encoding nucleic acid molecule, useful for
PT diagnosis, treatment and/or prevention of diseases associated with GPCR
PT polypeptides, such as obesity, diabetes, asthma, allergies, angina and
PT hepatitis.
XX
PS Claim 1; Fig 1; 122pp; English.
XX
CC The invention relates to a novel isolated G-Protein Coupled Receptor
CC (GPCR) protein. The methods and compositions of the present invention are
CC useful for diagnosis, treatment, amelioration and/or prevention of
CC diseases associated with G-Protein Coupled Receptor (GPCR) polypeptides,
CC such as obesity, diabetes, dyslipidaemia, asthma, bronchitis, allergies,
CC angina, glomerulonephritis, hepatitis and allograft rejection. This
CC polynucleotide sequence represents the DNA encoding the human GPCR
CC protein of the invention
XX
SQ Sequence 1038 BP; 207 A; 294 C; 277 G; 260 T; 0 U; 0 Other;
Query Match 100.0%; Score 1038; DB 7; Length 1038;
Best Local Similarity 100.0%; Pred. No. 5e-287;
Matches 1038; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
QY 1 ATGTACAAAGGTCGTCTGCGCATCGAGGGGACACCATCTCCACAGTGATGCCCGC 60
Db 1 ATGTACAAAGGTCGTCTGCGCATCGAGGGGACACCATCTCCACAGTGATGCCCGC 60
QY 61 CTGCTCATATGTGACCTTTGTGCTGGGGCACTAGGCAATGGGTCGCCCTGTGTGTTTC 120
Db 61 CTGCTCATATGTGACCTTTGTGCTGGGGCACTAGGCAATGGGTCGCCCTGTGTGTTTC 120
QY 121 TGGCTTCACATGAGACCTGGAAGCCAGCACCTGTTTACCTTTTCAATTTGGCGTGCT 180
Db 121 TGGCTTCACATGAGACCTGGAAGCCAGCACCTGTTTACCTTTTCAATTTGGCGTGCT 180
QY 181 GATTTCTCTCTATGATCTGCTGCTTTTGGACACACTATTACCTCAGACGTAGACAC 240
Db 181 GATTTCTCTCTATGATCTGCTGCTTTTGGACACACTATTACCTCAGACGTAGACAC 240
QY 241 TGGGCTTTTGGGACATTCCTCGGAGTGGGCTCTTCAAGTGGCCATGAACAGGGCC 300
Db 241 TGGGCTTTTGGGACATTCCTCGGAGTGGGCTCTTCAAGTGGCCATGAACAGGGCC 300
QY 301 GGGAGCATGCTGTGCTTACGGTGGTGGCTGGGACAGGTATTTCAGAGTGTCCACCC 360
Db 301 GGGAGCATGCTGTGCTTACGGTGGTGGCTGGGACAGGTATTTCAGAGTGTCCACCC 360
QY 361 CACACGCGGTGAACACTATCTCCACCGGCTGGCGCTGGCATGCTTGCACCCCTGTGG 420
Db 361 CACACGCGGTGAACACTATCTCCACCGGCTGGCGCTGGCATGCTTGCACCCCTGTGG 420
QY 421 GCCTGGTCAATCTGGGAAACAGTGTATCTTTTCTGGAGAACCATCTCTCGGTGCAAGAG 480
Db 421 GCCTGGTCAATCTGGGAAACAGTGTATCTTTTCTGGAGAACCATCTCTCGGTGCAAGAG 480
QY 481 ACGGCGCTCTCTGTGAGACTTCATCATGAGTGGCCATGCTGGCATGATCATCATG 540
Db 481 ACGGCGCTCTCTGTGAGACTTCATCATGAGTGGCCATGCTGGCATGATCATCATG 540
QY 541 TTCAGCTGGAGTCTTTATGCCCCCTCGGCATCATCTTATTTTCTCTTCAAGATGTT 600
Db 541 TTCAGCTGGAGTCTTTATGCCCCCTCGGCATCATCTTATTTTCTCTTCAAGATGTT 600
QY 601 TGGAGCTGAGCGGAGGAGAGCTGGCCAGACAGGCTGGATGAAGAGGAGGACCCCG 660
Db 601 TGGAGCTGAGCGGAGGAGAGCTGGCCAGACAGGCTGGATGAAGAGGAGGACCCCG 660
QY 661 TTCATCATGCTGTGTCATTTGTTTATCATCATGCTTACCTGCGGCGGTCTGTGTAGA 720
Db 661 TTCATCATGCTGTGTCATTTGTTTATCATCATGCTTACCTGCGGCGGTCTGTGTAGA 720
QY 721 CTCTATTTCTCTGAGCGGTGCTGAGTGGCTGATCCCTCTGTCCATGGGCGCTG 780
Db 721 CTCTATTTCTCTGAGCGGTGCTGAGTGGCTGATCCCTCTGTCCATGGGCGCTG 780
QY 781 CACATTAACCTTACCTTACCTACATGAACAGATGCTGATCCCTGTGTATTTATTT 840
Db 781 CACATTAACCTTACCTTACCTACATGAACAGATGCTGATCCCTGTGTATTTATTT 840
QY 841 TGAAGCCCTCTCTTCCCAATTTCTACAAAGCTCAAAATCTGAGTCTGAACCCAG 900
Db 841 TGAAGCCCTCTCTTCCCAATTTCTACAAAGCTCAAAATCTGAGTCTGAACCCAG 900
QY 901 CAGCCAGGACACTCAAAAACAAAAGCGGAGAGATGCAATTTTCAACCTCGGTGCG 960
Db 901 CAGCCAGGACACTCAAAAACAAAAGCGGAGAGATGCAATTTTCAACCTCGGTGCG 960
QY 961 AGAGTTGATCATAGTGGCAATAGTTTCCAAAGCAGTCTGATGGCAATGGATCCC 1020
Db 961 AGAGTTGATCATAGTGGCAATAGTTTCCAAAGCAGTCTGATGGCAATGGATCCC 1020
QY 1021 CACATTTGTCAGTGGCAC 1038
Db 1021 CACATTTGTCAGTGGCAC 1038
```

```
RESULT 3
AAH51008
ID AAH51008 standard; DNA; 1041 BP.
XX
AC AAH51008;
DT 28-AUG-2001 (first entry)
XX
DE Human nPCR11 coding sequence #2.
XX
KW G protein-coupled receptor; nPCR; seven transmembrane receptor;
signal transduction; schizophrenia; thyroid disorder; renal failure;
rheumatoid arthritis; CNS disorder; infection; metabolic disease;
cardiovascular disease; proliferative disorder; hormonal disease;
neurological disorder; neuronal disorder; Alzheimer's disease; cancer;
attention deficit-hyperactivity disorder; attention deficit disorder;
Parkinson's disease; migraine; senile dementia; inflammatory disease;
rheumatoid arthritis; autoimmune disorder; respiratory ailment;
neuroprotective; ds.
XX
OS Homo sapiens.
XX
PN WO200136473-A2.
XX
PD 25-MAY-2001.
XX
PF 16-NOV-2000; 2000WO-US031581.
XX
PR 16-NOV-1999; 99US-0165838P.
PR 17-NOV-1999; 99US-0166071P.
PR 19-NOV-1999; 99US-0166678P.
PR 28-DEC-1999; 99US-0173396P.
PR 22-FEB-2000; 2000US-0184129P.
PR 28-FEB-2000; 2000US-0185421P.
PR 28-FEB-2000; 2000US-0185554P.
PR 02-MAR-2000; 2000US-0186530P.
PR 03-MAR-2000; 2000US-0186811P.
PR 09-MAR-2000; 2000US-0188114P.
PR 17-MAR-2000; 2000US-0190310P.
PR 21-MAR-2000; 2000US-0190800P.
PR 20-APR-2000; 2000US-0198568P.
PR 02-MAY-2000; 2000US-0201190P.
PR 08-MAY-2000; 2000US-0203111P.
PR 25-MAY-2000; 2000US-0207094P.
XX
(PHAA ) PHARMACIA & UPJOHN CO.
XX
Vogeli G, Wood LS, Parodi LA, Hiebsch RR, Lind P, Slightom J;
Schellin KA, Kaytes PS, Bannigan CM, Ruff V, Sejlitz T, Huff RM;
WPI; 2001-389826/41.
P-PSDB; AAG80968.
XX
New G protein-coupled receptor (nPCR-X) and its encoding polynucleotide
useful for diagnosing and treating e.g. schizophrenia.
XX
Claim 4; Page 83; 261pp; English.
XX
The present invention relates to novel G protein-coupled receptors
(nPCRx; where x is 1, 3, 4, 5, 9, 11, 12, 14-18, 20, 21, 22, 24, 27, 28,
31-38, 40, 41, 53-60) and their coding sequences. The present sequence is
the coding sequence for one such G protein-coupled receptor. GPCR are
also known as seven transmembrane receptors and function in signal
transduction. The nPCRx coding sequences are useful for screening a
human to diagnose a disorder affecting the brain or a genetic
predisposition, specifically schizophrenia. nPCRx are useful for
identifying compounds useful for treating schizophrenia. Detection of
nPCRx in a sample is useful as a diagnostic tool for diseases or
disorders e.g. thyroid disorders, renal failure, rheumatoid arthritis,
CNS disorders, infections such as HIV-1, metabolic and cardiovascular
diseases, proliferative disorders and hormonal disorders. Modulators of
nPCRx activity have the utility for treating neurological disorders,
```

including schizophrenia, ADHD/ADD (attention deficit-hyperactivity disorder/attention deficit disorder), and neuronal disorders such as Alzheimer's disease, Parkinson's disease, migraine and senile dementia. Additional disorders include inflammatory conditions (e.g. Crohn's disease), rheumatoid arthritis, autoimmune disorders, cancers, respiratory ailments such as asthma, and inflammatory diseases e.g. inflammatory bowel disease

Sequence 1041 BP; 208 A; 294 C; 278 G; 261 T; 0 U; 0 Other;

Query Match 100.0%; Score 1038; DB 4; Length 1041;
 Best Local Similarity 100.0%; Pred. No. 5e-287;
 Matches 1038; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGTACACGGGTGCTGCTGCCGATCGAGGGGACACCATCTCCAGGTGATGCGCG 60
 DB 1 ATGTACACGGGTGCTGCTGCCGATCGAGGGGACACCATCTCCAGGTGATGCGCG 60
 QY 61 CTGCTCATGTGGCCCTTTGTGCTGGCGCCTAGGCAATGGGCTGCCCCCTGTGTGTTTC 120
 DB 61 CTGCTCATGTGGCCCTTTGTGCTGGCGCCTAGGCAATGGGCTGCCCCCTGTGTGTTTC 120
 QY 121 TGTTCACATGAAGACCTGAGGCGCAGCAGCTTTTACCTTTCAATTTGCGGTGGCT 180
 DB 121 TGTTCACATGAAGACCTGAGGCGCAGCAGCTTTTACCTTTCAATTTGCGGTGGCT 180
 QY 181 GATTTCCCTCTATGATCTGCTGCTTTCGACAGACTATTACTCAGAGCTAGACAC 240
 DB 181 GATTTCCCTCTATGATCTGCTGCTTTCGACAGACTATTACTCAGAGCTAGACAC 240
 QY 241 TGGGCTTTTGGGACATTCCTCCGAGTGGGGCTTTCACGTTGGCCATGAACAGGGCC 300
 DB 241 TGGGCTTTTGGGACATTCCTCCGAGTGGGGCTTTCACGTTGGCCATGAACAGGGCC 300
 QY 301 GGGAGCATCGTGTCTTAAGTGTGCTGCTGCGGACAGGTATTTCAAAGTGTCCACCCC 360
 DB 301 GGGAGCATCGTGTCTTAAGTGTGCTGCTGCGGACAGGTATTTCAAAGTGTCCACCCC 360
 QY 361 CACACGCGGTGAACATCTATCTCCACCGGGTGGCGCTGCTGCGACCCCTGTGG 420
 DB 361 CACACGCGGTGAACATCTATCTCCACCGGGTGGCGCTGCTGCGACCCCTGTGG 420
 QY 421 GCGCTGTGATCCTGGGACAGTGTATCTTTTGTGGAGAACATCTCTGCTGCAAGAG 480
 DB 421 GCGCTGTGATCCTGGGACAGTGTATCTTTTGTGGAGAACATCTCTGCTGCAAGAG 480
 QY 481 AGCGCGGTCTCTGTGAGGCTTCATGAGTGGGCTGCGCAATGGCTGGCATGATCATG 540
 DB 481 AGCGCGGTCTCTGTGAGGCTTCATGAGTGGGCTGCGCAATGGCTGGCATGATCATG 540
 QY 541 TTCCAGCTGGAGTCTTTATGCCCCCTCGGCATCATCTTATTTTGTCTTCAAGATTGTT 600
 DB 541 TTCCAGCTGGAGTCTTTATGCCCCCTCGGCATCATCTTATTTTGTCTTCAAGATTGTT 600
 QY 601 TGGACCTGAGCGGAGGAGCAGCTGCGCCAGACAGGCTCGGATGAGAGGCGACCCGG 660
 DB 601 TGGACCTGAGCGGAGGAGCAGCTGCGCCAGACAGGCTCGGATGAGAGGCGACCCGG 660
 QY 661 TTCATCATGAGTGGTGGCAATGTGTTTCATCATGCTACTGCGGAGCTGTGCTGCTAG 720
 DB 661 TTCATCATGAGTGGTGGCAATGTGTTTCATCATGCTACTGCGGAGCTGTGCTGCTAG 720
 QY 721 CTCTATTTCTCTGGAAGTGGCCCTCGAGTGGCTGCGATCCCTCTGCTCCATGGGCGCTG 780
 DB 721 CTCTATTTCTCTGGAAGTGGCCCTCGAGTGGCTGCGATCCCTCTGCTCCATGGGCGCTG 780
 QY 781 CACATTAACCTCAGCTTACCTTACATGAACAGCATGCTGGATCCCTCTGCTGATTTATTT 840
 DB 781 CACATTAACCTCAGCTTACCTTACATGAACAGCATGCTGGATCCCTCTGCTGATTTATTT 840
 QY 841 TCAAGCCCTCTCTTCCCAATTTCTACAACAGCTCAAAATCTGAGTGTGAACCCAG 900
 DB 841 TCAAGCCCTCTCTTCCCAATTTCTACAACAGCTCAAAATCTGAGTGTGAACCCAG 900

QY 901 CAGCCAGGACACTCAAAACACAAAGCCGAGAGATGCCAATTTCCAACTCGGTGCC 960
 DB 901 CAGCCAGGACACTCAAAACACAAAGCCGAGAGATGCCAATTTCCAACTCGGTGCC 960
 QY 961 AGGAGTTGCATCAGTGTGGCAATAGTTTCCAAAGCCAGCTCTGATGGGCAATGGGATCCC 1020
 DB 961 AGGAGTTGCATCAGTGTGGCAATAGTTTCCAAAGCCAGCTCTGATGGGCAATGGGATCCC 1020
 QY 1021 CACATTGTTGAGTGGCAC 1038
 DB 1021 CACATTGTTGAGTGGCAC 1038

RESULT 4
 AAS12581
 ID AAS12581 standard; cDNA; 1041 BP.
 XX
 AC AAS12581;
 DT 19-DEC-2001 (first entry)
 XX
 DE cDNA encoding novel human G protein-coupled receptor (GPCR).
 XX
 KW Human; G-protein coupled receptor; GPCR; chemokine receptor; protease;
 KW hyperproliferative disorder; neurological disorder; psychiatric disease;
 KW inflammatory disorder; respiratory disorder; gene therapy; ss.
 OS Homo sapiens.
 XX

Key Location/Qualifiers
 CDS 1..1041
 FT /*tag= a
 FT /product= "GPCR protein"
 XX
 WO200173029-A2.
 PD 04-OCT-2001.
 XX
 PD 27-MAR-2001; 2001WO-US009522.
 PF
 XX
 PR 27-MAR-2000; 2000US-0192419P.
 PR 06-SEP-2000; 2000US-0230459P.
 PR 20-SEP-2000; 2000US-00666535.
 XX
 PA (PEKE) PE CORP NY.
 XX
 PI Ye J, Cravchik A, Di Francesco V, Beasley EM;
 XX
 DR MPI; 2001-616503/71.
 DR P-PSDB; AAU06197.
 XX
 PT Novel human G-protein coupled receptor proteins and nucleic acid
 PT molecules encoding the protein for use in developing human therapeutics
 PT and diagnostic compositions and for identifying modulators of the
 PT protein.
 XX
 PS Claim 23; Fig 1; 66pp; English.
 XX
 CC The present invention relates to the isolation of a novel human G-protein
 CC coupled receptor (GPCR) which is related to the chemokine receptor
 CC subfamily. The cDNA and gene sequences encoding for GPCR are also given
 CC in the invention. The sequences of the invention are useful for
 CC diagnosing and treating diseases or conditions mediated by human
 CC proteases. Such diseases include hyperproliferative disorders (e.g.
 CC hyperplasia), neurological disorders (e.g. Parkinson's disease),
 CC psychiatric diseases (e.g. schizophrenia), inflammatory disorders (e.g.
 CC diabetes) and respiratory disorders (e.g. adult respiratory distress
 CC syndrome, ARDS). The GPCR protein is also useful for identifying a
 CC modulator of the expression of the protein. It also serves as a target
 CC for identifying agents for use in mammalian therapeutic applications,
 CC e.g. a human drug, particularly modulating a biological or pathological
 CC response in a cell or tissue which expresses the protein, in biological

assays related to GPCRs that are related to members of the chemokine receptor subfamily, in drug screening assays and in competition binding assays. GPCR is also useful in diagnosing a disease or predisposition to a disease mediated by the peptide, in pharmacogenomic analysis. The polynucleotide sequences can also be used in gene therapy. The present sequence encodes for the novel human GPCR of the invention

Sequence 1041 BP; 208 A; 294 C; 278 G; 261 T; 0 U; 0 Other;

Query Match
Best Local Similarity 100.0%; Score 1038; DB 5; Length 1041;
Matches 1038; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGTACAAACGGGTCTGCTGCGCATCGAGGGGAGACACCATCTCCAGGTGATGCGCGG 60
Db |||||
QY 51 CTGCTCATGTGGCCCTTGTGTGGCGGACATAGGAATGGGTGCGCTGTGTGTTTC 120
Db |||||
QY 61 CTGCTCATGTGGCCCTTGTGTGGCGGACATAGGAATGGGTGCGCTGTGTGTTTC 120
Db |||||
QY 121 TGTCTTCCACATGAACACTGGAAGCCAGACCTGTTTACCTTTTCAATTTGGCCGTGCT 180
Db |||||
QY 121 TGTCTTCCACATGAACACTGGAAGCCAGACCTGTTTACCTTTTCAATTTGGCCGTGCT 180
Db |||||
QY 181 GATTTCTCTTATGATCTGCTGCTTTTTCGACAGACTATTACTCAGAGCTAGACAC 240
Db |||||
QY 181 GATTTCTCTTATGATCTGCTGCTTTTTCGACAGACTATTACTCAGAGCTAGACAC 240
Db |||||
QY 241 TGGCTTTTGGGACATTCCTGCGAGTGGGCTTTCATGTTGGCCATGAAGGCC 300
Db |||||
QY 241 TGGCTTTTGGGACATTCCTGCGAGTGGGCTTTCATGTTGGCCATGAAGGCC 300
Db |||||
QY 301 GGGAGCATCGTGTCTTACGCTGTGCTGCGAGCAGTATTTCAAGGTGTCACCCC 360
Db |||||
QY 301 GGGAGCATCGTGTCTTACGCTGTGCTGCGAGCAGTATTTCAAGGTGTCACCCC 360
Db |||||
QY 361 CACACCGGTGAACATATCTCACCGGGTGGCGGTGGCTGTCACCCCTGTTGG 420
Db |||||
QY 361 CACACCGGTGAACATATCTCACCGGGTGGCGGTGGCTGTCACCCCTGTTGG 420
Db |||||
QY 421 GCCCTGCTCATCTGAGACAGTGTATCTTTTGTGGAGACCATCTCTGGTGGCAAG 480
Db |||||
QY 421 GCCCTGCTCATCTGAGACAGTGTATCTTTTGTGGAGACCATCTCTGGTGGCAAG 480
Db |||||
QY 481 ACGCCCTCTCTCTGAGAGCTTTCATCATGAGTGGCGCAATGCTGGCATGACATG 540
Db |||||
QY 481 ACGCCCTCTCTCTGAGAGCTTTCATCATGAGTGGCGCAATGCTGGCATGACATG 540
Db |||||
QY 541 TTCAGCTGAGTCTTTATGCCCTCGGCATCATCTTATTTGCTCTTCAAGATTGT 600
Db |||||
QY 541 TTCAGCTGAGTCTTTATGCCCTCGGCATCATCTTATTTGCTCTTCAAGATTGT 600
Db |||||
QY 601 TGGAGCTGAGGCGGAGGCGAGCTGCGAGCAGCTCGATGAGAGAGGACCCCG 660
Db |||||
QY 601 TGGAGCTGAGGCGGAGGCGAGCTGCGAGCAGCTCGATGAGAGAGGACCCCG 660
Db |||||
QY 661 TTCATCATGTTGTGGCAATTTGTCTTACATCATGCTACCTGCGCAGCGTGTCTGCTAGA 720
Db |||||
QY 661 TTCATCATGTTGTGGCAATTTGTCTTACATCATGCTACCTGCGCAGCGTGTCTGCTAGA 720
Db |||||
QY 721 CTCATTTCTCTGGAAGGTCCTCGAGTGCCTGCGATCCCTCTGTCATGGGGCCCTG 780
Db |||||
QY 721 CTCATTTCTCTGGAAGGTCCTCGAGTGCCTGCGATCCCTCTGTCATGGGGCCCTG 780
Db |||||
QY 781 CACATAACCTCAGCTTTCATCATGACAGCATGCTGGATCCCTGGTGTATTTT 840
Db |||||
QY 781 CACATAACCTCAGCTTTCATCATGACAGCATGCTGGATCCCTGGTGTATTTT 840
Db |||||
QY 841 TCAAGCCCTCTCTTTCCCAATTTTACAAAGCTCAAAATCTCGAGTCTGAAACCCCAAG 900
Db |||||
QY 841 TCAAGCCCTCTCTTTCCCAATTTTACAAAGCTCAAAATCTCGAGTCTGAAACCCCAAG 900
Db |||||

QY 901 CAGCCAGGACACTCAAAACACAAAGCCGCGAAGAGATGCCAATTTGAACTCGGTCCG 960
Db |||||
QY 901 CAGCCAGGACACTCAAAACACAAAGCCGCGAAGAGATGCCAATTTGAACTCGGTCCG 960
Db |||||
QY 961 AGGAGTTGCATCAGTGTGGCAATAGTTTCCAAAGCCAGTCTGATGGGCAATGGGATCCC 1020
Db |||||
QY 961 AGGAGTTGCATCAGTGTGGCAATAGTTTCCAAAGCCAGTCTGATGGGCAATGGGATCCC 1020
Db |||||
QY 1021 CACATTTGTAGTGGCAC 1038
Db |||||
QY 1021 CACATTTGTAGTGGCAC 1038
Db |||||

RESULT 5
AAS07946
ID AAS07946 standard; cDNA; 1041 BP.
XX AC AAS07946;
XX DT 23-OCT-2001 (first entry)
XX DE Human cDNA encoding G-protein coupled receptor, hRUP19.
XX KW Human; G-protein coupled receptor; GPCR; hRUP19; agonist;
XX OS Homo sapiens.
XX FH Key Location/Qualifiers
XX FT CDS 1..1041
XX FT FT /*tag= a
XX FT FT /product= "hRUP19"
XX WO200136471-A2.
XX PD 25-MAY-2001.
XX PF 16-NOV-2000; 2000WO-US031509.
XX PR 17-NOV-1999; 99US-0166088P.
XX PR 17-NOV-1999; 99US-0166099P.
XX PR 17-NOV-1999; 99US-0166369P.
XX PR 23-DEC-1999; 99US-0171900P.
XX PR 23-DEC-1999; 99US-0171901P.
XX PR 23-DEC-1999; 99US-0171902P.
XX PR 11-FEB-2000; 2000US-0181749P.
XX PR 14-MAR-2000; 2000US-0189258P.
XX PR 14-MAR-2000; 2000US-0189259P.
XX PR 10-APR-2000; 2000US-0195898P.
XX PR 10-APR-2000; 2000US-0196078P.
XX PR 28-APR-2000; 2000US-0200419P.
XX PR 12-MAY-2000; 2000US-0203630P.
XX PR 12-JUN-2000; 2000US-0210741P.
XX PR 12-JUN-2000; 2000US-0210982P.
XX PR 21-AUG-2000; 2000US-0226760P.
XX PR 26-SEP-2000; 2000US-0235418P.
XX PR 26-SEP-2000; 2000US-0235779P.
XX PR 20-OCT-2000; 2000US-0242332P.
XX PR 20-OCT-2000; 2000US-0242343P.
XX PR 24-OCT-2000; 2000US-0243019P.
XX PA (AREN-) ARENA PHARM INC.
XX PI Chen R, Dang HT, Lowitz KP;
XX WPI; 2001-355616/37.
XX DR P-PSDB; AAU04373.
XX PT Endogenous and non-endogenous versions of human G-protein coupled
XX PT receptors for direct identification of candidate compounds as agonists,
XX PT inverse agonists or partial agonists for use as therapeutic agents.

PS Claim 47; Page 115; 160pp; English.

XX The sequence encodes a human G-protein coupled receptor (GPCR), hRUP19

CC The endogenous and non-endogenous, constitutively activated versions of

CC human G-protein coupled receptors (GPCR), are useful for direct

CC identification of candidate compounds as receptor agonists, inverse

CC agonists or partial agonists having applicability as therapeutic agents

CC for treating diseases related to GPCR, e.g. lung cancer. Non-endogenous

CC version of human GPCRs are also utilized in research settings and in

CC vitro and in vivo system, incorporating GPCRs can be utilized to

CC elucidate and understand the roles these receptors play in the human

CC condition, both normal and diseased

XX

SQ Sequence 1041 BP; 208 A; 294 C; 278 G; 261 T; 0 U; 0 Other;

Query Match 102.0%; Score 1038; DB 5; Length 1041;

Best Local Similarity 102.0%; Pred. No. 5e-287;

Matches 1038; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGTACACGGGTGCTGCGCATCGAGGGGACACCATCTCCAGGTGATGCGCGG 60

DB 1 ATGTACACGGGTGCTGCGCATCGAGGGGACACCATCTCCAGGTGATGCGCGG 60

QY 61 CTGCTCATTTGTGGCCCTTGTGTGGGCGACCTAGGCAATGGGCTGCGCTGTGTTTC 120

DB 61 CTGCTCATTTGTGGCCCTTGTGTGGGCGACCTAGGCAATGGGCTGCGCTGTGTTTC 120

QY 121 TGTCTCCACATGAGACCTGGAGCCGACGACCTGTTTACCTTTCAATTTGGCGGTGGCT 180

DB 121 TGTCTCCACATGAGACCTGGAGCCGACGACCTGTTTACCTTTCAATTTGGCGGTGGCT 180

QY 181 GATTTCTCTTATGATCTGCTGCTGCTTTCGACAGACATTTACCTCAGACCTAGACAC 240

DB 181 GATTTCTCTTATGATCTGCTGCTTTCGACAGACATTTACCTCAGACCTAGACAC 240

QY 241 TGGGCTTTTGGGACATTCCTCCGAGTGGGGCTCTTACGTTGGCCATGAACAGGGCC 300

DB 241 TGGGCTTTTGGGACATTCCTCCGAGTGGGGCTCTTACGTTGGCCATGAACAGGGCC 300

QY 301 GGGAGCATGCTGTTCTTACGTTGGTGGTGGGACAGGTATTTCAAGTGGTCCACCC 360

DB 301 GGGAGCATGCTGTTCTTACGTTGGTGGTGGGACAGGTATTTCAAGTGGTCCACCC 360

QY 361 CACGAGCGGTGAACATCTATCCACCGGCTGGGCTGGCATGCTGCTCAGCCCTGTGG 420

DB 361 CACGAGCGGTGAACATCTATCCACCGGCTGGGCTGGCATGCTGCTCAGCCCTGTGG 420

QY 421 GCGCTGGTCACTCTGGGACAGTGTATCTTTTCTGGAGAACCATCTCTGCGTGCAGAG 480

DB 421 GCGCTGGTCACTCTGGGACAGTGTATCTTTTCTGGAGAACCATCTCTGCGTGCAGAG 480

QY 481 AGGGCGCTCTCTGAGAGCTTCATCATGAGTGGGCAATGGTGGCATGACATCATG 540

DB 481 AGGGCGCTCTCTGAGAGCTTCATCATGAGTGGGCAATGGTGGCATGACATCATG 540

QY 541 TCCAGCTGGAGTCTTTATGCCCCCTCGGATCATCTTATTTTGTCTCTCAGATTGT 600

DB 541 TCCAGCTGGAGTCTTTATGCCCCCTCGGATCATCTTATTTTGTCTCTCAGATTGT 600

QY 601 TGGAGCCTGAGCGGAGGACAGCTGGCCAGACAGCTCGGATGAAGAGGCGACCGG 660

DB 601 TGGAGCCTGAGCGGAGGACAGCTGGCCAGACAGCTCGGATGAAGAGGCGACCGG 660

QY 661 TCCATCATGCTGGTGGCAATGTTGTTTATCATCATGCTTACCTGCCAGCGTGTCTGTA 720

DB 661 TCCATCATGCTGGTGGCAATGTTGTTTATCATCATGCTTACCTGCCAGCGTGTCTGTA 720

QY 721 CTCTATTCTCTGGAGCGGCTCGAGTGGCTGCGATCCCTCTGTCCATGGGCGCTG 780

DB 721 CTCTATTCTCTGGAGCGGCTCGAGTGGCTGCGATCCCTCTGTCCATGGGCGCTG 780

QY 781 CACATAACCTCAGTTCACCTACATGAACAGCATGCTGATCCCTCGTGTATTATTTT 840

DB 781 CACATAACCTCAGTTCACCTACATGAACAGCATGCTGATCCCTCGTGTATTATTTT 840

QY 841 TCAAGCCCTCTCTTCCCAATTTCTACAACAGCTCAAAATCTGCAGTCTGAAACCCAG 900

DB 841 TCAAGCCCTCTCTTCCCAATTTCTACAACAGCTCAAAATCTGCAGTCTGAAACCCAG 900

QY 901 CAGCCAGGACACTCAAAAACACAAAGCCGGAAGAGATGCCAATTTGAAACCTCGGTGCG 960

DB 901 CAGCCAGGACACTCAAAAACACAAAGCCGGAAGAGATGCCAATTTGAAACCTCGGTGCG 960

QY 961 AGGAGTTGTCATGCTGCGCAATAGTTTCCAAAGCAGTCTGATGGGCAATGGATCCC 1020

DB 961 AGGAGTTGTCATGCTGCGCAATAGTTTCCAAAGCAGTCTGATGGGCAATGGATCCC 1020

QY 1021 CACATTGTTGAGTGGCAC 1038

DB 1021 CACATTGTTGAGTGGCAC 1038

RESULT 6

AAD27497

ID AAD27497 standard; DNA; 1041 BP.

XX

AC AAD27497;

XX

DT 18-APR-2002 (first entry)

XX

DE Human G-protein coupled receptor (GPCRx14) DNA.

XX

XX Human; G-protein coupled receptor; GPCRx14; cerebroprotective; vomiting;

KW receptor-mediated disorder; therapy; urinary retention; allergy; obesity;

KW osteoporosis; angina pectoris; restenosis; atherosclerosis; hypotension;

KW anorexia; tumor; migraine; acute heart failure; ulcer; antiinflammatory;

KW stroke; hypertension; neuronal disorder; myocardial infarction; psychiatric;

KW depression; mental retardation; neurodegenerative disease; antibacterial;

KW Alzheimer's disease; dementia; ischaemia; Parkinson's disease; antiviral;

KW Huntington's disease; anxiety; antifungal; immunosuppressive; cytostatic;

KW vulnary; analgesic; anorectic; anabolic; diuretic; cardiac; nootropic;

KW antiemetic; vasotropic; diabetes; cancer; tranquilizer; neuroleptic; ds.

XX

OS Homo sapiens.

XX

Key Location/Qualifiers

CD 1.1041

FT /*tag= a

FT /product= "Human GPCRx14 protein"

XX

XX WC200198330-A2.

XX

XX 27-DEC-2001.

XX

XX 20-JUN-2001; 2001WO-BE000104.

XX

XX 20-JUN-2000; 2000US-0212913P.

PR 11-JUL-2000; 2000US-0217494P.

PR 26-JAN-2001; 2001EP-00870015.

PR 12-FEB-2001; 2001EP-00870024.

XX

XX (EURO-) EUROSCHEN SA.

XX

XX Lannoy V, Brezillon S, Detheux M, Parmentier M, Govarts C;

PI

XX WPI; 2002-130789/17.

XX

XX P-PSDB; AAEL7077.

DR

DR

XX New G-protein coupled receptor, useful in the manufacture of medicaments

PT for treating receptor mediated disorders e.g. acute heart failure and

PT Alzheimer's disease.

XX

XX Example 2; Page 28-29; 46pp; English.

XX

CC The present invention relates to a G-protein coupled receptor (GPCR) and

CC nucleotide encoding it. GPCR are useful in the manufacture of a

medicament for the prevention and/or treatment of receptor-mediated disorders e.g. viral infections, virus and bacterial diseases, diseases and disorders involving disturbances of cell migration, diseases or perturbations of immune system including cancers, development of tumours and tumour metastasis, inflammatory and neoplastic processes; bacterial and fungal infections, in wound and bone healing, dysfunction of regulatory growth functions; pains, diabetes, obesity, anorexia, bulimia, urinary retention, osteoporosis, angina pectoris, atherosclerosis, restenosis, diseases involving excessive or reduced proliferation or loss of smooth muscle cells, aneurysm, stroke, ischaemia, ulcers, allergies, benign prostatic hypertrophy, migraine, vomiting; blood circulating affections including acute heart failure, hypertension, hypertension and myocardial infarction; psychotic; neuronal disorders such as anxiety, schizophrenia, manic depression, depression, delirium, dementia, severe mental retardation; degenerative diseases; neurodegenerative diseases such as Alzheimer's disease, Parkinson's disease; and dyskinesias e.g. Huntington's disease or Gilles de la Tourette's syndrome and other related diseases. The present sequence is GPCR₁₄ DNA

XX Sequence 1041 BP; 208 A; 294 C; 278 G; 261 T; 0 U; 0 Other;

Query Match 100.0%; Score 1038; DB 6; Length 1041;
 Best Local Similarity 100.0%; Pred. No. 5e-287;
 Matches 1038; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 ATGTACAAAGCGGTGCTGCTGCGCATCGAGGGGACACCATCTCCAGGTGATCGCGCG 60
 1 ATGTACAAAGCGGTGCTGCTGCGCATCGAGGGGACACCATCTCCAGGTGATCGCGCG 60
 61 CTGCTCATTTGTGGCTTTGTGTGGGCGCACTAGGCAATGGGGTCGCCCTGTGTGTTTC 120
 61 CTGCTCATTTGTGGCTTTGTGTGGGCGCACTAGGCAATGGGGTCGCCCTGTGTGTTTC 120
 121 TGCTTCCACATGAGACCTGGAGCCGACGACTGTATACCTTTCAATTTGGCCGTGGCT 180
 121 TGCTTCCACATGAGACCTGGAGCCGACGACTGTATACCTTTCAATTTGGCCGTGGCT 180
 181 GATTTCCTCTTATGATCTGCTGCTTTTCGGACAGACTATACCTCAGACGTAGACAC 240
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 301 GGGAGCATGCTGTCTTACGTTGGTGGCTGCGACAGGATTTTCAAGTGGTCCACCCC 360
 301 GGGAGCATGCTGTCTTACGTTGGTGGCTGCGACAGGATTTTCAAGTGGTCCACCCC 360
 361 CACCACGCGGTGAACACTATCTCCACCCGGGTGGCGCTGGCATCTGTCACCCCTGTGG 420
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 421 GCCCTGGTATCTCTGGGAAAGTGTATCTTTTGTGGAGAACCATCTCTGGTGCAGAG 480
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 541 TTCAGCTGGAGTTCTTTATGCCCTCGGCATCATCTTATTTTGTCTCTCTTCAAGATTGT 600
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721 CTCATATTCCTCTGAGCGGTGCCCTCGAGTGCCTCGGATCCCTCTGTCTCCATGGGCCCTG 780
 721 CTCATATTCCTCTGAGCGGTGCCCTCGAGTGCCTCGGATCCCTCTGTCTCCATGGGCCCTG 780
 781 CACATAACCTCTCAGCTTTCACCTCATGAAACAGCATGTGGATCCCTGGTGTATTATTTT 840
 781 CACATAACCTCTCAGCTTTCACCTCATGAAACAGCATGTGGATCCCTGGTGTATTATTTT 840
 841 TCAGGCCCTCTCTTCCCAATTCACACAGCTCAAAATCTGCAGTCTGAACCCCAAG 900
 841 TCAGGCCCTCTCTTCCCAATTCACACAGCTCAAAATCTGCAGTCTGAACCCCAAG 900
 901 CAGCAGGACACTCAAAAACACAAAGCCGGAAGATGCCAATTTCCAACTCGTGGTGC 960
 901 CAGCAGGACACTCAAAAACACAAAGCCGGAAGATGCCAATTTCCAACTCGTGGTGC 960
 961 AGGAGTTGCATCAGTGTGGCAATAGTTTCCAAAGCCAGTCTGTATGGCAATGGGATCCC 1020
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 1021 CACATTCTGTGAGTGGCAC 1038
 1021 CACATTCTGTGAGTGGCAC 1038

RESULT 7

ABS70241

ID ABS70241 standard; DNA; 1041 BP.

XX ABS70241;

XX AC

XX 26-NOV-2002 (first entry)

XX DNA encoding human G protein-coupled receptor, nGPCR-11.

XX Human; gene; ds; G protein-coupled receptor; GPCR; nGPCR; besPCR;

XX nG protein coupled receptor; communication; serpentine structure;

XX seven transmembrane receptor; 7TM; mental disorder; diagnosis;

XX genetic predisposition; brain; immune response; gene therapy;

XX anxiety disorder; depression; bipolar disorder; schizophrenia;

XX Huntington's disease; dyskinesia; manic depression; stroke;

XX Parkinson's disease; Alzheimer's disease; diabetes; inflammation; wound;

XX tranquiliser.

XX Homo sapiens.

XX WO200264789-Al.

XX 22-AUG-2002.

XX 14-FEB-2001; 2001WO-US004641.

XX 14-FEB-2001; 2001WO-US004641.

XX (PHAA) PHARMACIA & UPJOHN CO.

XX Lind P, Parodi LA, Vogeli G, Wood LS;

XX WPI; 2002-674879/72.

XX P-PSDB; ABG93786.

XX New nucleic acids and polypeptides of the nG protein-coupled receptor,

XX useful for treating or diagnosing a mental disorder or a disorder

XX affecting the brain, e.g. anxiety disorders, schizophrenia, stroke or

XX Parkinson's disease.

XX Example 1; Page 84; 24app; English.

XX The invention discloses an isolated human polypeptide, and encoding

XX nucleic acid, for a G protein-coupled receptor (GPCR), particularly the

XX nG protein coupled receptor-14 (nGPCR-14). GPCRs are vital in the

XX communication between cells and their environment and are characterised

XX by a serpentine structure that passes through the cell membrane seven

CC the printed specification, but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/published_pct_sequences

XX Query Match 100.0%; Score 1038; DB 6; Length 1041;
XX Best Local Similarity 100.0%; Pred. No. 5e-287;

SQ Sequence 1041 BP; 208 A; 294 C; 278 G; 261 T; 0 U; 0 Other;
Matches 1038; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
QY 1 ATGTACAAAGCGGTGCTGTCGGCGCATCGAGGGGAGACCATCTCCAGGTTGATCGCGCG 60
DB 1 ATGTACAAAGCGGTGCTGTCGGCGCATCGAGGGGAGACCATCTCCAGGTTGATCGCGCG 60
QY 61 CTGCTCATTTGGGCTTTGCTGCTGGGCGCACTAGGCAATGGGTCGCCCTGNGTGTTTC 120
DB 61 CTGCTCATTTGGGCTTTGCTGCTGGGCGCACTAGGCAATGGGTCGCCCTGNGTGTTTC 120
QY 121 TGCTTCCACATGAAGACCTGGAAGCCAGACACTGTTTACCTTTTCAATTTGGCCGTGGCT 180
DB 121 TGCTTCCACATGAAGACCTGGAAGCCAGACACTGTTTACCTTTTCAATTTGGCCGTGGCT 180
QY 181 GATTTCTCTTATGATCTGCTGCTTTTCCGACAGACTATTACCTTTCATTTGGCCGTGGCT 240
DB 181 GATTTCTCTTATGATCTGCTGCTTTTCCGACAGACTATTACCTTTCATTTGGCCGTGGCT 240
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DB 241 TGGGCTTTTGGGGACATTTCCCTGCGGCTGAGTGCGGCTCTTTCAGGTTGGCCATGAACAGGCCC 300
QY 301 GGGAGCATGCTGTTCTTACGGTGGTGGCTGCGACAGGTATTTCAAAGTGTGTCACCC 360
DB 301 GGGAGCATGCTGTTCTTACGGTGGTGGCTGCGACAGGTATTTCAAAGTGTGTCACCC 360
QY 361 CACACAGGCTGACACTATCTTCCACCGGCTGGGCTGGCATGCTTGCACCCCTGG 420
DB 361 CACACAGGCTGACACTATCTTCCACCGGCTGGGCTGGCATGCTTGCACCCCTGG 420
QY 421 GCCCTGGTCTATCTGGAACAGTGTATCTTTTGTGGAGAACCATCTCTGCTGTCGAAG 480
DB 421 GCCCTGGTCTATCTGGAACAGTGTATCTTTTGTGGAGAACCATCTCTGCTGTCGAAG 480
QY 481 ACGGCGGTCTCTCTGAGAGCTTCATCATGAGTGGCCCAATGGCTGGCATGACATCATG 540
DB 481 ACGGCGGTCTCTCTGAGAGCTTCATCATGAGTGGCCCAATGGCTGGCATGACATCATG 540
QY 541 TTCCAGCTGGAGTTCTTTATGCCCTCGGCATCATCTTATTTTGGCTTCCATGATGTT 600
DB 541 TTCCAGCTGGAGTTCTTTATGCCCTCGGCATCATCTTATTTTGGCTTCCATGATGTT 600
QY 601 TGGAGCTGAGGCGGAGGAGCAGCTGGCCAGACAGGCTCGATGAGAGGAGGAGCCCGG 660
DB 601 TGGAGCTGAGGCGGAGGAGCAGCTGGCCAGACAGGCTCGATGAGAGGAGGAGCCCGG 660
QY 661 TTATCATGTTGGTGGCAATTTGTTTATCATCATGCTACCTGACCTGCTGCTGCTAG 720
DB 661 TTATCATGTTGGTGGCAATTTGTTTATCATCATGCTACCTGACCTGCTGCTGCTAG 720
QY 721 CTCTATTTCTCTGGAAGGCTGCTGAGTGGCTGGATGCTGCTGCTGCTGCTGCTGCTG 780
DB 721 CTCTATTTCTCTGGAAGGCTGCTGAGTGGCTGGATGCTGCTGCTGCTGCTGCTGCTG 780
QY 781 CACATAACCTCTCAGCTTTCACCTACATGAACAGCATGCTGGATCCCTGCTGCTATTTT 840
DB 781 CACATAACCTCTCAGCTTTCACCTACATGAACAGCATGCTGGATCCCTGCTGCTATTTT 840
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DB 841 TCAAGCCCTCTCTTCCCAATTTCTACAACAGCTCAAAATCTCAGTCTGAAACCCCAAG 900
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DB 901 CAGCCAGGACACTCAAAAACACAAAGCGCGGAGAGATGCCAATTTTGAACCTCGTGGC 960
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```
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DB 961 AGGAGTTGCATCAGTGTGCGCAATAGTTTCCAAAGCCAGTCTGTGATGGCAATGGATCCC 1020
QY 1021 CACATTGTTGAGTGGCAC 1038
DB 1021 CACATTGTTGAGTGGCAC 1038

RESULT 9
ID AAL42499 standard; DNA; 1041 BP.
XX AAL42499;
XX AC AAL42499;
XX 28-JUN-2002 (first entry)
XX Human purinergic-like G-protein coupled receptor (AXOR87) DNA sequence.
XX Human; gene; ds; purinergic-like G-protein coupled receptor; AXOR87;
XX immunity; autoimmunity; inflammation; immunodeficiency;
XX bacterial infection; fungal infection; viral infection;
XX protozoa infection; cancer; diabetes; obesity; anorexia; bulimia; asthma;
XX psoriasis; rheumatoid arthritis; osteoarthritis; psychotic disorder;
XX neurological disorder; vaccine; chromosome 12q24.
XX Homo sapiens.
XX
XX Key Location/Qualifiers
XX CDS 1..1041
XX /*tag= a
XX /product= "Human purinergic-like G-protein coupled
XX receptor AXOR87"
XX
XX GB2365868-A.
XX
XX 27-FEB-2002.
XX
XX 25-MAY-2001; 2001GB-00012860.
XX
XX 30-MAY-2000; 2000US-00590675.
XX 02-NOV-2000; 2000GB-00026839.
XX
XX (SMK ) SMITHKLINE BEECHAM CORP.
XX (SMK ) SMITHKLINE BEECHAM PLC.
XX (GLAX ) GLAXO GROUP LTD.
XX
XX Ignar DM, Eishourbagy N, Gattu M, Shabon U;
XX
XX WPI; 2002-364852/40.
XX P-PSDB; AAO14788.
XX
XX New purinergic-like G-protein coupled receptor AXOR87 polypeptide and
XX polynucleotide, useful for treating diseases related to autoimmunity,
XX inflammation, immunodeficiency, or bacterial, fungal, viral and protozoal
XX infections.
XX
XX Claim 5; Page 36; 47pp; English.
XX
XX The invention comprises the amino acid and coding sequence of the human
XX purinergic-like G-protein coupled receptor AXOR87. The AXOR87 DNA and
XX protein sequences of the invention may be used for treating diseases
XX related to immunity, autoimmunity, inflammation, immunodeficiency, and
XX infections (i.e. bacterial, fungal, viral, protozoan). The AXOR87 DNA and
XX protein sequences are particularly useful for treating: cancers,
XX diabetes, obesity, anorexia, bulimia, asthma, psoriasis, rheumatoid
XX arthritis, osteoarthritis, as well as psychotic and neurological
XX disorders. The AXOR87 DNA and protein sequences may also be used as
XX vaccines. The present DNA sequence (located on chromosome 12q24) encodes
XX the human AXOR87 protein
XX
XX Sequence 1041 BP; 208 A; 294 C; 278 G; 261 T; 0 U; 0 Other;
```


Db 1 ATGTACAAAGGAGTCTGCTGCGCATCGAGGGGACACCATCTCCAGGTGATGCGCGG 60
Qy 61 CTGCTCATTTGGGCTTTGTGCTGGGCGACCTAGGCAATGGGCTGCCCTGTGTGTTTC 120
Db 61 CTGCTCATTTGGGCTTTGTGCTGGGCGACCTAGGCAATGGGCTGCCCTGTGTGTTTC 120
Qy 121 TGCTTCCATGAAAGCTTGAAGCCAGCACTGTTTACCTTTTCAATTGGCCCTGGCT 180
Db 121 TGCTTCCATGAAAGCTTGAAGCCAGCACTGTTTACCTTTTCAATTGGCCCTGGCT 180
Qy 181 GATTTCTCTCTATGATCTGCTGCTTTGGACAGACTATTAAGCTCAGAGGTAGACAC 240
Db 181 GATTTCTCTCTATGATCTGCTGCTTTGGACAGACTATTAAGCTCAGAGGTAGACAC 240
Qy 241 TGGGCTTTTGGGCAATTCCTGCGAGTGGGCTCTTCAGCTGGCCATGAAGAGGCC 300
Db 241 TGGGCTTTTGGGCAATTCCTGCGAGTGGGCTCTTCAGCTGGCCATGAAGAGGCC 300
Qy 301 GGGAGCATCGTGTCTTACGCTGGTGGCTGGGACAGGTATTTCAAAGTGGTCCACCCC 360
Db 301 GGGAGCATCGTGTCTTACGCTGGTGGCTGGGACAGGTATTTCAAAGTGGTCCACCCC 360
Qy 361 CACCAAGGCTGAACATATCTCAACCGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGG 420
Db 361 CACCAAGGCTGAACATATCTCAACCGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGG 420
Qy 421 GCCCTGGTCTCTCTGGGACAGTGTATCTTTTGTGGAGAACCATCTCTGGTGGCAAG 480
Db 421 GCCCTGGTCTCTCTGGGACAGTGTATCTTTTGTGGAGAACCATCTCTGGTGGCAAG 480
Qy 481 ACGGCGCTCTCTGTGAGAGTTTCAATGAGTGGCCCAATGGCTGGCATGACATCATG 540
Db 481 ACGGCGCTCTCTGTGAGAGTTTCAATGAGTGGCCCAATGGCTGGCATGACATCATG 540
Qy 541 TTCCAGCTGGAGTTCTTTATGCTGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGG 600
Db 541 TTCCAGCTGGAGTTCTTTATGCTGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGG 600
Qy 601 TGGAGCTTGGGCGGAGGAGCTGGGCGAGAGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGG 660
Db 601 TGGAGCTTGGGCGGAGGAGCTGGGCGAGAGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGG 660
Qy 661 TTCAATGAGTGGGCAATTTGTTTCAATGAGTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGG 720
Db 661 TTCAATGAGTGGGCAATTTGTTTCAATGAGTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGG 720
Qy 721 CTCTATTTCTCTGGAGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGG 780
Db 721 CTCTATTTCTCTGGAGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGG 780
Qy 781 CACATACCTCTCAGCTTCACTACATGAAAGCATGCTGGATCCCTGGTGTATTATTTT 840
Db 781 CACATACCTCTCAGCTTCACTACATGAAAGCATGCTGGATCCCTGGTGTATTATTTT 840
Qy 841 TGAAGCCCTCTTTTCCAAATTTCAACAAAGCTTCAAAATCTGAGTGTGAACCCCAAG 900
Db 841 TGAAGCCCTCTTTTCCAAATTTCAACAAAGCTTCAAAATCTGAGTGTGAACCCCAAG 900
Qy 901 CAGCAGGACACTCAAAACACAAAGCCGAGAGATGCCAATTTGAACTCTGGTGGC 960
Db 901 CAGCAGGACACTCAAAACACAAAGCCGAGAGATGCCAATTTGAACTCTGGTGGC 960
Qy 961 AGGAGTTGCAATCAGTGTGGCAATAGTTTCCAAAGCCAGTCTGATGGCAATGGATCCC 1020
Db 961 AGGAGTTGCAATCAGTGTGGCAATAGTTTCCAAAGCCAGTCTGATGGCAATGGATCCC 1020
Qy 1021 CACATTGTTGAGTGGCAC 1038
Db 1021 CACATTGTTGAGTGGCAC 1038

RESULT 11
AB257957

ID AB257957 standard; cDNA; 1041 BP.
XX AB257957;
AC
XX
XX
DT 14-APR-2003 (first entry)
XX
XX Human respiratory chemokine receptor coding sequence.
DE
DB
XX G-protein coupled receptor; GPCR; receptor; chemokine; human;
KW antiasthmatic; antiinflammatory; antitussive; vaccine; gene; ss.
XX
XX Homo sapiens.
FH Key Location/Qualifiers
FT CDS 1..1041
FT /*tag= a
FT /product= "Human G-protein coupled receptor"
XX
XX WO2003002604-A2.
XX
XX 09-JAN-2003.
XX
XX 25-JUN-2002; 2002WO-EP007021.
XX
XX 26-JUN-2001; 2001US-0300944P.
XX
XX (NOVS) NOVARTIS AG
XX (NOVS) NOVARTIS-ERFINDUNGEN VERM GES MBH.
XX
XX Bhatia U, Jones CE, Bouhelal R, Seuwen K, Tenailon L;
XX
XX WPI; 2003-210243/20.
XX P-P8DB; ABP58453.
XX
XX New polypeptide, useful for diagnosing or treating e.g., asthma, chronic obstructive pulmonary disease, emphysema, chronic bronchitis or acute respiratory distress syndrome.
XX
XX Claim 3; Page 42-43; 44pp; English.
XX
XX The present sequence is the coding sequence for a novel human G-protein coupled receptor (GPCR) characterised as a respiratory chemokine receptor. The receptor is expressed in respiratory tissues and tissues related to monocyte/macrophage migration/activation, airway remodeling, airway fibrosis, regulation of epithelial differentiation, regulation of mucus hypersecretion, regulation of mucociliary clearance, regulation of inflammation, modulation of neutrophil, T-cell and eosinophil migration and/or activation, and regulation of epithelial cell or mast cell activation. GPCR polypeptides and polynucleotides of the invention may be useful in treatment of asthma, chronic obstructive pulmonary disease, emphysema, chronic bronchitis, acute respiratory distress syndrome, cough and acute bronchitis. Methods of identifying agonist and antagonist compounds that stimulate or inhibit the function or level of the novel receptor are also provided. GPCR polynucleotides can also be used for recombinant production of GPCR polypeptides, as diagnostic reagents, for chromosome localisation studies, and as vaccines
XX
XX Sequence 1041 BP; 208 A; 294 C; 278 G; 261 T; 0 U; 0 Other;
Qy Query Match 100.0%; Score 1038; DB 7; Length 1041;
Db Best Local Similarity 100.0%; Pred. No. 5e-287;
Matches 1038; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 ATGTACAAAGGAGTCTGCTGCGCATCGAGGGGACACCATCTCCAGGTGATGCGCGG 60
Db 1 ATGTACAAAGGAGTCTGCTGCGCATCGAGGGGACACCATCTCCAGGTGATGCGCGG 60
Qy 61 CTGCTCATTTGGGCTTTGTGCTGGGCGACCTAGGCAATGGGCTGCCCTGTGTGTTTC 120
Db 61 CTGCTCATTTGGGCTTTGTGCTGGGCGACCTAGGCAATGGGCTGCCCTGTGTGTTTC 120
Qy 121 TGCTTCCATGAAAGCTTGAAGCCAGCACTGTTTACCTTTTCAATTGGCCCTGGCT 180
Db 121 TGCTTCCATGAAAGCTTGAAGCCAGCACTGTTTACCTTTTCAATTGGCCCTGGCT 180
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Db 181 GATTTCTCTCTATGATCTGCTGCTTTGGACAGACTATTAAGCTCAGAGGTAGACAC 240
Qy 241 TGGGCTTTTGGGCAATTCCTGCGAGTGGGCTCTTCAGCTGGCCATGAAGAGGCC 300
Db 241 TGGGCTTTTGGGCAATTCCTGCGAGTGGGCTCTTCAGCTGGCCATGAAGAGGCC 300
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Db 301 GGGAGCATCGTGTCTTACGCTGGTGGCTGGGACAGGTATTTCAAAGTGGTCCACCCC 360
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Db 361 CACCAAGGCTGAACATATCTCAACCGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGG 420
Qy 421 GCCCTGGTCTCTCTGGGACAGTGTATCTTTTGTGGAGAACCATCTCTGGTGGCAAG 480
Db 421 GCCCTGGTCTCTCTGGGACAGTGTATCTTTTGTGGAGAACCATCTCTGGTGGCAAG 480
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Db 481 ACGGCGCTCTCTGTGAGAGTTTCAATGAGTGGCCCAATGGCTGGCATGACATCATG 540
Qy 541 TTCCAGCTGGAGTTCTTTATGCTGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGG 600
Db 541 TTCCAGCTGGAGTTCTTTATGCTGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGGCTGGG 600
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Db 1021 CACATTGTTGAGTGGCAC 1038

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Db 301 GGGAGCATCGTGTTCCTTACGTTGGTGGTGGGACAGGATTTTCAAGTGGTCCACCC 360
QY 361 CACCACCGGTGAACACTATCTCCACCCGGGTGGGCTGSCATCGTCTGCACCTCTGG 420
Db 361 CACCACCGGTGAACACTATCTCCACCCGGGTGGGCTGSCATCGTCTGCACCTCTGG 420
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QY 541 TTCAGCTGAGTGTCTTTATGCCCTCGGCATCATCTTATTTTCTCTCTCAAGATTGTT 600
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QY 721 CTCTATTTCTCTGGAGGTCCTCTGAGTGGCTGCGATCCCTCTGTCATGAGGCGCTG 780
Db 721 CTCTATTTCTCTGGAGGTCCTCTGAGTGGCTGCGATCCCTCTGTCATGAGGCGCTG 780
QY 781 CACATTAACCTCGTCTCACTACATGAACAGCATGCTGGATCCCTGCTGTATTTT 840
Db 781 CACATTAACCTCGTCTCACTACATGAACAGCATGCTGGATCCCTGCTGTATTTT 840
QY 841 TCAAGCCCTCTCTTCCAAATTTCTACACAGCTCAAAATCTGAGTCTGAAACCCAG 900
Db 841 TCAAGCCCTCTCTTCCAAATTTCTACACAGCTCAAAATCTGAGTCTGAAACCCAG 900
QY 901 CAGCCAGGACACTCAAAAACACAAAGCCGGAAGAGATGCCAATTTGAAACCTCGGTCG 960
Db 901 CAGCCAGGACACTCAAAAACACAAAGCCGGAAGAGATGCCAATTTGAAACCTCGGTCG 960
QY 961 AGAGTTGATCATGTGTGGCAATAGTTTCCAAAGCCAGTCTGATGGGCAATGGATCCC 1020
Db 961 AGAGTTGATCATGTGTGGCAATAGTTTCCAAAGCCAGTCTGATGGGCAATGGATCCC 1020
QY 1021 CACATTTGTTGAGTGGCAC 1038
Db 1021 CACATTTGTTGAGTGGCAC 1038
```

RESULT 12

AAD61654

ID AAD61654 standard; DNA; 1041 BP.

XX

AC AAD61654;

XX

DT 15-JAN-2004 (first entry)

XX

DE Human GPCR14 DNA.

XX

Human: G-protein coupled receptor; GPCR; infection; neoplastic process; inflammation; myocardial infarction; atherosclerosis; angina pectoris; hypertension; osteoporosis; antibacterial; cytostatic; fungicide; pain; diabetes; cancer; virucide; analgesic; cardiant; gene; ds.

Homo sapiens.

Key Location/Qualifiers
CDS 1..1041
/*tag= a
/product= "Human GPCR protein"

US2003108986-A1.

12-JUN-2003.

20-FEB-2002; 2002US-00079384.

21-JUN-2001; 2001US-00885453.

(EURO-) EUROSREEN SA.

Communi D, Lannoy V, Brezillon S, Dethoux M, Parmentier M;
Govaerts C;

WPI: 2003-810852/76.

P-PSDB; ABW00810.

Novel G-protein coupled receptor useful for treating viral infections, bacterial infections, fungal infections, cancer, diabetes, hypertension, osteoporosis, angina pectoris, myocardial infarction, atherosclerosis.

Claim 5; Fig 9; Opp; English.

The present invention relates to novel G-protein coupled receptors (GPCRs) and the nucleic acids encoding them. The invention is useful for treating viral, bacterial and fungal infections, inflammatory and neoplastic processes, pain, diabetes, hypertension, osteoporosis, cancer, angina pectoris, myocardial infarction and atherosclerosis. The present sequence is human G-protein coupled receptor (GPCR) DNA

SQ Sequence 1041 BP; 208 A; 294 C; 278 G; 261 T; 0 U; 0 Other;

Query Match 100.0%; Score 1038; DB 9; Length 1041;

Best Local Similarity 100.0%; Pred. No. 5e-287;

Matches 1038; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGTACAAAGGTCGTGCTGCCGATCGAGGGGACACCATCTCCAGGTGATGCCGCG 60

Db 1 ATGTACAAAGGTCGTGCTGCCGATCGAGGGGACACCATCTCCAGGTGATGCCGCG 60

QY 61 CTGCTCAATCTGTCCTTTGTCTGGGCGCACTAGGCAATGGGTCGCTGTGGTTTC 120

Db 61 CTGCTCAATCTGTCCTTTGTCTGGGCGCACTAGGCAATGGGTCGCTGTGGTTTC 120

QY 121 TCGTTCACATGAAGACCTCGAAGCCAGACACTGTTTACCTTTTCAATTTGGCGTGGCT 180

Db 121 TCGTTCACATGAAGACCTCGAAGCCAGACACTGTTTACCTTTTCAATTTGGCGTGGCT 180

QY 181 GATTTCCTCTTATGATCTGCTGCCCTTTTCGGACAGACTATTACCTCAGACGTAGACAC 240

Db 181 GATTTCCTCTTATGATCTGCTGCCCTTTTCGGACAGACTATTACCTCAGACGTAGACAC 240

QY 241 TGGGCTTTTGGGACATTCCTCGGAGTGGGGCTCTTACGTTGGCATGAACAGGGCC 300

Db 241 TGGGCTTTTGGGACATTCCTCGGAGTGGGGCTCTTACGTTGGCATGAACAGGGCC 300

QY 301 GGGAGCATCGTGTTCCTTACGTTGGTGGTGGGACAGGATTTTCAAGTGGTCCACCC 360

Db 301 GGGAGCATCGTGTTCCTTACGTTGGTGGTGGGACAGGATTTTCAAGTGGTCCACCC 360

QY 361 CACCACCGGTGAACACTATCTCCACCCGGGTGGGCTGSCATCGTCTGCACCTCTGG 420

Db 361 CACCACCGGTGAACACTATCTCCACCCGGGTGGGCTGSCATCGTCTGCACCTCTGG 420

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Db 361 CACCACGGCGTGAACACTATCTCCACCAGCGGTGGGGCTGGCATCGTCTGCACCCCTGTGG 420
Qy 421 GCCTCGTCACTCTGGGAACAGTGTATCTTTTGTGTGGAGAACCATCTCTCGGTGCAGAG 480
Db 421 GCCTCGTCACTCTGGGAACAGTGTATCTTTTGTGTGGAGAACCATCTCTCGGTGCAGAG 480
Qy 481 ACGGCCGCTCTCTGTGTAGAGCTTCATCATGAGTGGCCCAATGCTGGCATGACATCATG 540
Db 481 ACGGCCGCTCTCTGTGTAGAGCTTCATCATGAGTGGCCCAATGCTGGCATGACATCATG 540
Qy 541 TTCAGCTGAGTGTCTTTATGCCCCCTCGGCATCATCTTTATTTTCTCTTCAAGATGTT 600
Db 541 TTCAGCTGAGTGTCTTTATGCCCCCTCGGCATCATCTTTATTTTCTCTTCAAGATGTT 600
Qy 601 TGGAGCTGAGCGGCGGAGCGAGCTGGCCAGACAGAGCTGGATGAGAGAGGCGACCCGG 660
Db 601 TGGAGCTGAGCGGCGGAGCGAGCTGGCCAGACAGAGCTGGATGAGAGAGGCGACCCGG 660
Qy 661 TTCATCATGCTGTGGCAATTTGTTTCATCATCATGCTACCTGCCAGCGTGTCTGTGAGA 720
Db 661 TTCATCATGCTGTGGCAATTTGTTTCATCATCATGCTACCTGCCAGCGTGTCTGTGAGA 720
Qy 721 CTCTATTTCTCTGAGCGGTGCCCTCGAGTGCCTGCGATCCCTCTGTCCATGGGCGCCTG 780
Db 721 CTCTATTTCTCTGAGCGGTGCCCTCGAGTGCCTGCGATCCCTCTGTCCATGGGCGCCTG 780
Qy 781 CACATACCTCTCAGCTTCACCTACATCATGACAGCATGCTGGATCCCTCGTGTATTTT 840
Db 781 CACATACCTCTCAGCTTCACCTACATCATGACAGCATGCTGGATCCCTCGTGTATTTT 840
Qy 841 TCAAGCCCTCTCTTTCCTCAAAATTTACACAAAGCTCAAAATCTGCAGTCTGAAACCCAAAG 900
Db 841 TCAAGCCCTCTCTTTCCTCAAAATTTACACAAAGCTCAAAATCTGCAGTCTGAAACCCAAAG 900
Qy 901 CAGCCAGGACACTCAAAACACAAAGCGCGGAGAGATGCCAATTTGAACTCTCGTGC 960
Db 901 CAGCCAGGACACTCAAAACACAAAGCGCGGAGAGATGCCAATTTGAACTCTCGTGC 960
Qy 961 AGAGGTTCATCAGTGTGGCAATAGTTTCCAAAGCCAGTCTGATGGCAATGGATCCC 1020
Db 961 AGAGGTTCATCAGTGTGGCAATAGTTTCCAAAGCCAGTCTGATGGCAATGGATCCC 1020
Qy 1021 CACATTTGTCAGTGGCAC 1038
Db 1021 CACATTTGTCAGTGGCAC 1038
RESULT 13
ID ABA81530 standard; DNA; 1050 BP.
AC ABA81530;
XX
XX
XX 28-JAN-2002 (first entry)
DE Human GPCR1b polynucleotide SEQ ID NO 3.
XX
XX Human; GPCR; G-coupled protein-receptor; cardiant; antiarteriosclerotic;
XX anabolic; cytosclerotic; antiviral; gene therapy; cardiomyopathy; obesity;
XX anorexia; diabetes; osteoporosis; Crohn's disease; multiple sclerosis;
XX asthma; Alzheimer's disease; Parkinson's disorder; Huntington's disease;
XX infection; human immunodeficiency virus; HIV; ds.
XX
XX Homo sapiens.
XX
XX WC020174904-A2.
XX
XX 11-OCT-2001.
XX
XX 30-MAR-2001; 2001WO-US010241.
XX
XX 31-MAR-2000; 2000US-0193664P.
PR 05-APR-2000; 2000US-0194614P.
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PR 06-APR-2000; 2000US-0195063P.
PR 06-APR-2000; 2000US-0195066P.
PR 06-APR-2000; 2000US-0195067P.
PR 06-APR-2000; 2000US-0195068P.
PR 06-APR-2000; 2000US-0195069P.
PR 06-APR-2000; 2000US-0195070P.
PR 06-APR-2000; 2000US-0195101P.
PR 21-JUL-2000; 2000US-0219855P.
PR 27-JUL-2000; 2000US-0221284P.
PR 28-JUL-2000; 2000US-0221325P.
PR 11-AUG-2000; 2000US-0224588P.
PR 11-OCT-2000; 2000US-0239613P.
PR 18-JAN-2001; 2001US-0262508P.
PR 23-JAN-2001; 2001US-0263433P.
PR 23-JAN-2001; 2001US-0263604P.
PR 30-JAN-2001; 2001US-0265161P.
PR 29-MAR-2001; 2001US-00823172.
XX
(CURA-) CURAGEN CORP.
Majumder X, Vernet CM, Casman SJ, Wolenc AR, Spaderna SK;
Padigaru M, Mishnu VS, Tchernev VT, Spytek KA, Li L, Baumgartner JC;
Gusev VY;
WPI; 2001-639351/73.
P-PSDB; ABB44522.
New human G-protein coupled receptor X, GPCR, polypeptide useful in
treatment or prevention of GPCR associated disorders e.g. cardiomyopathy
or atherosclerosis, and to screen for antagonists and agonists useful
therapeutically.
Claim 9; Page 10; 157pp; English.
```

The invention relates to nucleic acid sequences (ABA81529-ABA81552) that encode G-coupled protein-receptor related polypeptides (ABA44522-ABA44543). The isolated polypeptide having a sequence differing by no more than 15 % of amino acid residues from one of 22 amino acid sequences (or mature forms of the sequences), fully defined in the specification and corresponding to human G-protein coupled receptor X (GPCRX) polypeptides. The polypeptides have potential cardiant, antiarteriosclerotic, anabolic, cytosclerotic and antiviral activity. The polypeptides can be administered therapeutically, especially using gene therapy and expressing the encoding DNA in vivo, to treat or prevent GPCR-associated disorders, especially in humans. For example, they can be used to treat/prevent cardiomyopathy, atherosclerosis, disorders related to signal processing and metabolic pathway modulation (e.g. obesity, anorexia), diabetes, osteoporosis, Crohn's disease, multiple sclerosis, asthma, cancers, neurodegenerative disorders (e.g. Alzheimer's disease, Parkinson's disorder, Huntington's disease), immune disorders, haematopoietic disorders, developmental diseases, neurological disorders, bacterial, fungal, protozoal and viral infections (e.g. with human immunodeficiency virus (HIV)-1 or HIV-2). They can be used diagnostically to determine the presence of or predisposition to a disease associated with altered levels of the polypeptide in mammals (especially humans) by detecting alterations in polypeptide expression levels relative to control samples. They are useful to identify agents binding polypeptide (e.g. cellular receptors or downstream effectors) and/or agents modulating cellular polypeptide expression or activity, useful as antagonists and agonists in disease treatment

Sequence 1050 BP; 211 A; 298 C; 279 G; 262 T; 0 U; 0 Other;

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Query Match 100.0%; Score 1038; DB 4; Length 1050;
Best Local Similarity 100.0%; Pred. No. 5e-287;
Matches 1038; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGTACAAACGGGTGCTGCTGCCGATCGAGGGGACACCATCTCCAGGTGATCGCGCG 60
Db 6 ATGTACAAACGGGTGCTGCTGCCGATCGAGGGGACACCATCTCCAGGTGATCGCGCG 65
Qy 61 CTGCTCATTTGCGCTTTGTGCTGGCGCATAGGCAATGGGTGCGCCTGTGCTGTTTC 120
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Db 66 CTGCTCATTTGGGCTTTGTGCTGGCGGCACCTAGGCAATGGGCTCGCCCTGTGTGGTTTC 125
Qy 121 TGCCTCCACATGAACACCTCTGGAGCCAGCAGCTGTTTACCTTTTCAATTTGGCCCTGGCT 180
Db 126 TGCCTTCCACATGAACACCTCTGGAGCCAGCAGCTGTTTACCTTTTCAATTTGGCCCTGGCT 185
Qy 181 GATTTTCCTCTTATCATCTGCTGCTGCTTTTCGACAGACTATTAATCTCAGAGCTAGACAC 240
Db 186 GATTTTCCTCTTATCATCTGCTGCTGCTTTTCGACAGACTATTAATCTCAGAGCTAGACAC 245
Qy 241 TGGGCTTTTGGGGAATTCCTCTGCCAGTGGGGCTTTCACCTTGGCCCATGAACAGGGCC 300
Db 246 TGGGCTTTTGGGGAATTCCTCTGCCAGTGGGGCTTTCACCTTGGCCCATGAACAGGGCC 305
Qy 301 GGGAGCTCGTGTCTTACCGTGGTGGCTGGAGCAGGTATTTCAAGTGGTCCACCC 360
Db 306 GGGAGCTCGTGTCTTACCGTGGTGGCTGGAGCAGGTATTTCAAGTGGTCCACCC 365
Qy 361 CACCAAGCGGTGAACACTATCTCCACCGGCTGGCGCTGGCATCTGTGCAACCTGTGG 420
Db 366 CACCAAGCGGTGAACACTATCTCCACCGGCTGGCGCTGGCATCTGTGCAACCTGTGG 425
Qy 421 GCCCTGGTCTCTCTGGGAACAGTGTATCTTTTGTCTGGAGAACATCTCTGGCTGCAAG 480
Db 426 GCCCTGGTCTCTCTGGGAACAGTGTATCTTTTGTCTGGAGAACATCTCTGGCTGCAAG 485
Qy 481 ACGGCGCTCTCTGTGAGAGCTTCATCATGAGTGGCCAAATGGCTGGCATCACATCATG 540
Db 486 ACGGCGCTCTCTGTGAGAGCTTCATCATGAGTGGCCAAATGGCTGGCATCACATCATG 545
Qy 541 TTCAGCTGGAGTCTCTTATGCCCCCTGGGCATCATCTTATTTTGTCTTCAAGATTGTT 600
Db 546 TTCAGCTGGAGTCTCTTATGCCCCCTGGGCATCATCTTATTTTGTCTTCAAGATTGTT 605
Qy 601 TGGAGCTGAGCGGAGCGAGCTGSCCAGACAGGCTGGATGAGAGAGGAGCGCCCG 660
Db 606 TGGAGCTGAGCGGAGCGAGCTGSCCAGACAGGCTGGATGAGAGAGGAGCGCCCG 665
Qy 661 TTCATCATGCTGGTGGCAATCTGTTTCATCATGCTACCTGCCAGCGTGTCTGTCTAGA 720
Db 666 TTCATCATGCTGGTGGCAATCTGTTTCATCATGCTACCTGCCAGCGTGTCTGTCTAGA 725
Qy 721 CTCTATTTCTCTGACAGGTGCCCCCTGAGTGCCTGCGATCCCTCTGTCTCATGGGCCCCG 780
Db 726 CTCTATTTCTCTGACAGGTGCCCCCTGAGTGCCTGCGATCCCTCTGTCTCATGGGCCCCG 785
Qy 781 CACATAACCCCTCAGCTTCACTACATGACAGCATGCTGGATCCCTGCTGTATTATTTT 840
Db 786 CACATAACCCCTCAGCTTCACTACATGACAGCATGCTGGATCCCTGCTGTATTATTTT 845
Qy 841 TCAAGCCCTCTCTTTCCCAAAATCTACAAACAGCTCAAAATCTGCAGTCTGAAACCCCAAG 900
Db 846 TCAAGCCCTCTCTTTCCCAAAATCTACAAACAGCTCAAAATCTGCAGTCTGAAACCCCAAG 905
Qy 901 CAGCCAGACACTCAAAACACAAAGCGCGGAGAGATGCCAAATTCGAACCTCGTGC 960
Db 906 CAGCCAGACACTCAAAACACAAAGCGCGGAGAGATGCCAAATTCGAACCTCGTGC 965
Qy 961 AGGAGTTCATCAGTGTGCAATAGTTTCCAAAGCCAGTCTGATGGGCAATGGGATCCC 1020
Db 966 AGGAGTTCATCAGTGTGCAATAGTTTCCAAAGCCAGTCTGATGGGCAATGGGATCCC 1025
Qy 1021 CACATTGTTGAGTGGCAC 1038
Db 1026 CACATTGTTGAGTGGCAC 1043

RESULT 14

ABAB1529

ID ABAB1529 standard; DNA; 1050 BP.

XX

AC ABAB1529;

XX

DT 28-JAN-2002 (first entry)
XX Human GPCR1a polynucleotide SEQ ID NO 1.
DE Human; GPCR; G-coupled protein-receptor; cardiant; antiarteriosclerotic;
XX anabolic; cytotatic; antiviral; gene therapy; cardiomyopathy; obesity;
XX anorexia; diabetes; osteoporosis; Crohn's disease; multiple sclerosis;
KW asthma; Alzheimer's disease; Parkinson's disease; Huntington's disease;
KW infection; human immunodeficiency virus; HIV; ds.
XX Homo sapiens.
OS WC200174904-A2.
XX 11-OCT-2001.
PN 30-MAR-2001; 2001WO-US010241.
PD 31-MAR-2000; 2000US-0193664P.
PP 05-APR-2000; 2000US-0194614P.
XX 06-APR-2000; 2000US-0195063P.
XX 06-APR-2000; 2000US-0195066P.
XX 06-APR-2000; 2000US-0195067P.
XX 06-APR-2000; 2000US-0195068P.
XX 06-APR-2000; 2000US-0195069P.
XX 06-APR-2000; 2000US-0195070P.
XX 21-JUL-2000; 2000US-0195510P.
XX 27-JUL-2000; 2000US-02119855P.
XX 28-JUL-2000; 2000US-0221284P.
XX 11-AUG-2000; 2000US-0224588P.
XX 11-OCT-2000; 2000US-0239613P.
XX 18-JAN-2001; 2001US-0262508P.
XX 23-JAN-2001; 2001US-0263433P.
XX 23-JAN-2001; 2001US-0263604P.
XX 30-JAN-2001; 2001US-0265161P.
XX 29-MAR-2001; 2001US-00823172.
(CURA-) CURAGEN CORP.
PA Majumder K, Vernet CAM, Casman SJ, Wolenc AR, Spaderna SK;
PI Padigaru M, Mishnu VS, Tchernev VT, Spytek KA, Li L, Baumgartner JC;
PI Gusev VI;
XX WPI: 2001-639351/73.
XX P-PSDB; ABB44522.
DR New human G-protein coupled receptor X, GPCR, polypeptide useful in
XX treatment or prevention of GPCR associated disorders e.g. cardiomyopathy
XX or atherosclerosis, and to screen for antagonists and agonists useful
XX therapeutically.
PS Claim 9; Page 7; 157pp; English.
XX The invention relates to nucleic acid sequences (ABA81529-ABA81552) that
XX encode G-coupled protein-receptor related polypeptides (ABA44522-
XX ABB44543). The isolated polypeptide having a sequence differing by no
XX more than 15 % of amino acid residues from one of 22 amino acid sequences
XX (or mature forms of the sequences), fully defined in the specification
XX and corresponding to human G-protein coupled receptor X (GPCRX)
XX polypeptides. The polypeptides have potential cardiant,
XX antiarteriosclerotic, anabolic, cytotatic and antiviral activity. The
XX polypeptides can be administered therapeutically, especially using gene
XX therapy and expressing the encoding DNA in vivo, to treat or prevent
XX GPCR-associated disorders, especially in humans. For example, they can
XX be used to treat/prevent cardiomyopathy, atherosclerosis, disorders
XX related to signal processing and metabolic pathway modulation (e.g.
XX obesity, anorexia), diabetes, osteoporosis, Crohn's disease, multiple
XX sclerosis, asthma, cancers, neurodegenerative disorders (e.g. Alzheimer's
XX disease, Parkinson's disease, Huntington's disease), immune disorders,
XX haematopoietic disorders, developmental diseases, neurological disorders,
XX bacterial, fungal, protozoal and viral infections (e.g. with human
XX immunodeficiency virus (HIV)-1 or HIV-2). They can be used diagnostically

CC to determine the presence of or predisposition to a disease associated
CC with altered levels of the polypeptide in mammals (especially humans) by
CC detecting alterations in polypeptide expression levels relative to
CC control samples. They are useful to identify agents binding polypeptide
CC (e.g. cellular receptors or downstream effectors) and/or agents
CC modulating cellular polypeptide expression or activity, useful as
CC antagonists and agonists in disease treatment

XX
SQ Sequence 1050 BP; 211 A; 299 C; 279 G; 261 T; 0 U; 0 Other;

Query Match 100.0%; Score 1038; DB 4; Length 1050;
Best Local Similarity 100.0%; Pred. No. 5e-287;
Matches 1038; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 ATGTACACGGGTGCTGTCGCGATCGAGGGGACACATCTCCAGGTGATGCGCGG 60
DB |||||||||||||||||||||||||||||||||||||||||||||||||||||||
QY 6 ATGTACACGGGTGCTGTCGCGATCGAGGGGACACATCTCCAGGTGATGCGCGG 65
DB |||||||||||||||||||||||||||||||||||||||||||||||||||||||
QY 61 CTGCTCATTTGGCCCTTTGTGCTGGGCGCCTAGGCAATGGGCTGCGCTGTGTGTTTC 120
DB |||||||||||||||||||||||||||||||||||||||||||||||||||||||
QY 66 CTGCTCATTTGGCCCTTTGTGCTGGGCGCCTAGGCAATGGGCTGCGCTGTGTGTTTC 125
DB |||||||||||||||||||||||||||||||||||||||||||||||||||||||
QY 121 TGTCTCCATGAAGACCTGGAAGCCGACGATGTTTACCTTTCAATTTGGCCGTGGCT 180
DB |||||||||||||||||||||||||||||||||||||||||||||||||||||||
QY 126 TGTCTCCATGAAGACCTGGAAGCCGACGATGTTTACCTTTCAATTTGGCCGTGGCT 185
DB |||||||||||||||||||||||||||||||||||||||||||||||||||||||
QY 181 GATTTCTCTTATGATCTGCTGCTTTTGGGACAGACTATTACTCAGAGTAGACAC 240
DB |||||||||||||||||||||||||||||||||||||||||||||||||||||||
QY 186 GATTTCTCTTATGATCTGCTGCTTTTGGGACAGACTATTACTCAGAGTAGACAC 245
DB |||||||||||||||||||||||||||||||||||||||||||||||||||||||
QY 241 TGGGCTTTTGGGACATTTCCCTGCGAGTGGGCTCTTCACTTGGCCATGAACAGGGCC 300
DB |||||||||||||||||||||||||||||||||||||||||||||||||||||||
QY 246 TGGGCTTTTGGGACATTTCCCTGCGAGTGGGCTCTTCACTTGGCCATGAACAGGGCC 305
DB |||||||||||||||||||||||||||||||||||||||||||||||||||||||
QY 301 GGGAGCATGTTTCCCTTACGGTGTGTGCTGGGACAGGTATTTCAAAGTGTCCACCCC 360
DB |||||||||||||||||||||||||||||||||||||||||||||||||||||||
QY 306 GGGAGCATGTTTCCCTTACGGTGTGTGCTGGGACAGGTATTTCAAAGTGTCCACCCC 365
DB |||||||||||||||||||||||||||||||||||||||||||||||||||||||
QY 361 CACACGGGTGGAACATCTTCCACCGGGTGGCGGTGGCATGCTGCAACCTGTGG 420
DB |||||||||||||||||||||||||||||||||||||||||||||||||||||||
QY 366 CACACGGGTGGAACATCTTCCACCGGGTGGCGGTGGCATGCTGCAACCTGTGG 425
DB |||||||||||||||||||||||||||||||||||||||||||||||||||||||
QY 421 GCCCTGGTCTCTCGGGAACAGTGTATCTTTTGGTGGGAACCATCTCTGCGTGAAGAG 480
DB |||||||||||||||||||||||||||||||||||||||||||||||||||||||
QY 426 GCCCTGGTCTCTCGGGAACAGTGTATCTTTTGGTGGGAACCATCTCTGCGTGAAGAG 485
DB |||||||||||||||||||||||||||||||||||||||||||||||||||||||
QY 481 ACGGCGTCTCTGTGAGAGCTTCAATGAGTGGGCAATGGCTGGGATGACATCATG 540
DB |||||||||||||||||||||||||||||||||||||||||||||||||||||||
QY 486 ACGGCGTCTCTGTGAGAGCTTCAATGAGTGGGCAATGGCTGGGATGACATCATG 545
DB |||||||||||||||||||||||||||||||||||||||||||||||||||||||
QY 541 TCCAGCTGGAGTCTTTTATGCCCTCGGCATCATCTTATTTTGTCTTCAAGATTGTT 600
DB |||||||||||||||||||||||||||||||||||||||||||||||||||||||
QY 546 TCCAGCTGGAGTCTTTTATGCCCTCGGCATCATCTTATTTTGTCTTCAAGATTGTT 605
DB |||||||||||||||||||||||||||||||||||||||||||||||||||||||
QY 601 TGGAGCTTGGAGCGGAGCAGCTGGCCAGACAGGCTCGGATGAAGAGCGCACCCGG 660
DB |||||||||||||||||||||||||||||||||||||||||||||||||||||||
QY 606 TGGAGCTTGGAGCGGAGCAGCTGGCCAGACAGGCTCGGATGAAGAGCGCACCCGG 665
DB |||||||||||||||||||||||||||||||||||||||||||||||||||||||
QY 661 TTCATCATGGTGGGCAATGTTGTTTCAATCATGCTTACCTCCAGGTGCTGCTAGA 720
DB |||||||||||||||||||||||||||||||||||||||||||||||||||||||
QY 666 TTCATCATGGTGGGCAATGTTGTTTCAATCATGCTTACCTCCAGGTGCTGCTAGA 725
DB |||||||||||||||||||||||||||||||||||||||||||||||||||||||
QY 721 CTCTATTTCTCTGAGCGTGGCTCGAGTGGCTGCGATCCCTCTGTCTCAGGCGCCCTG 780
DB |||||||||||||||||||||||||||||||||||||||||||||||||||||||
QY 726 CTCTATTTCTCTGAGCGTGGCTCGAGTGGCTGCGATCCCTCTGTCTCAGGCGCCCTG 785
DB |||||||||||||||||||||||||||||||||||||||||||||||||||||||
QY 781 CACATAACCTCTCAGCTTCACTTACATGAACAGCATGCTGATCCCTCTGTGATTTT 840
DB |||||||||||||||||||||||||||||||||||||||||||||||||||||||
QY 786 CACATAACCTCTCAGCTTCACTTACATGAACAGCATGCTGATCCCTCTGTGATTTT 845
DB |||||||||||||||||||||||||||||||||||||||||||||||||||||||
QY 841 TCAAGCCCTCTCTTCCCAAAATCTTACAAAGCTCAAAATCTGAGTCTGAACCCCAAG 900
DB |||||||||||||||||||||||||||||||||||||||||||||||||||||||
QY 846 TCAAGCCCTCTCTTCCCAAAATCTTACAAAGCTCAAAATCTGAGTCTGAACCCCAAG 905
DB |||||||||||||||||||||||||||||||||||||||||||||||||||||||
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QY 901 CAGCCAGGACACTCAAAAACACAAAGGCGGAGAGATGCCAATTTGGAACCTCGGTGCG 960
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QY 906 CAGCCAGGACACTCAAAAACACAAAGGCGGAGAGATGCCAATTTGGAACCTCGGTGCG 965
DB |||||||||||||||||||||||||||||||||||||||||||||||||||||||
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DB |||||||||||||||||||||||||||||||||||||||||||||||||||||||
QY 966 AGGAGTTGCATCAGTGTGGCAATAGTTTCCAAAGCCAGTCTGATGGGCAATGGATCCC 1025
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QY 1021 CACATTGTGAGTGGCAC 1038
DB |||||||||||||||||||||||||||||||||||||||||||||||||||||||
QY 1026 CACATTGTGAGTGGCAC 1043
DB |||||||||||||||||||||||||||||||||||||||||||||||||||||||
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RESULT 15

ADE40271

ID ADE40271 standard; cDNA; 1050 BP.

XX AC ADE40271;

XX AC ADE40271;

DT 29-JAN-2004 (first entry)

XX Human NOV41a cDNA - SEQ ID 177.

DE Human NOV41a cDNA - SEQ ID 177.

XX NOVX; cardiant; antiarteriosclerotic; hypotensive; cytostatic; anorectic;

XX antidiabetic; immunosuppressive; anti-HIV; neuroprotective; nootropic;

XX antiparkinsonian; antiasthmatic; gynaecological; cardiomyopathy;

XX atherosclerosis; hypertension; cancer; obesity; diabetes; AIDS;

XX multiple sclerosis; graft-versus-host disease; Alzheimer's; Parkinson's;

XX asthma; fertility disorder; vaccine; gene therapy; chromosome mapping;

XX tissue typing; human; NOV; ss; gene.

XX Homo sapiens.

OS WO2003064589-A2.

XX PD 07-AUG-2003.

XX PD 07-AUG-2003.

XX PD 07-AUG-2003.

XX PD 07-AUG-2003.

XX PD 07-AUG-2003.

XX PD 07-AUG-2003.

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XX PD 07-AUG-2003.

(CURA-) CURAGEN CORP.

Kekuda R, Miller CE, Patturajan M, Pena CEA, Rieger DK;

Shinketsu RM, Zerkhusen BD, Li L, Ji W, Padigaru M, Casman SJ;

Voss EZ, Boldog FL, Gorman L, Leite MW, Vernet CAM, Anderson DW;

Guo X, Zhong M, Gerlach VL, Hjalt T, Rastelli L, Spytek KA;

PI Edinger SR, Ellerman K, Malyankar UM, Macdougall JR, Stone DJ;
PI Alsebrook JP, Lepley DM, Burgess CE, Majumder K, Wolenc AR,
PI Smithson G;
XX WPI: 2003-663472/62.
DR P-PSDB: ADE40272.
XX
XX New NOVX polypeptides and nucleic acids, useful for preventing or
PT treating NOVX-associated disorders, e.g. cancer, cardiomyopathy,
PT atherosclerosis or diabetes, and in chromosome mapping, tissue typing or
PT pharmacogenomics.
XX
XX Claim 20; SEQ ID NO 177; 560pp; English.
XX
XX The invention relates to a novel NOVX polypeptide. The polypeptide of the
CC invention demonstrates cardiant, antiarteriosclerotic, hypotensive,
CC cytotatic, anorectic, antidiabetic, immunosuppressive, anti-HIV,
CC neuroprotective, nootropic, antiparkinsonian, antiasthmatic and
CC gynaecological activities and may be useful in diagnosing, treating or
CC preventing NOVX-associated disorders including cardiomyopathy,
CC atherosclerosis, hypertension, cancer, obesity, diabetes, AIDS, multiple
CC sclerosis, graft-versus-host disease, Alzheimer's disease, Parkinson's
CC disease, asthma or fertility disorders. Furthermore, the polypeptides may
CC be utilised as vaccines whilst the nucleic acids may be used as
CC hybridisation probes, in gene therapy, chromosome mapping, tissue typing,
CC preventive medicine and pharmacogenomics. The current sequence is that of
CC the human NOVX cDNA of the invention.
XX
SQ Sequence 1050 BP; 211 A; 298 C; 279 G; 262 T; 0 U; 0 Other;
Query Match 100.0%; Score 1038; DB 9; Length 1050;
Best Local Similarity 100.0%; Pred. No. 5e-287;
Matches 1038; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ATGTACACAGGGTGTGCTGCCCATCTCGAGGGGACACCATCTCCAGGTTATGCCGCG 60
Db 6 ATGTACACAGGGTGTGCTGCCCATCTCGAGGGGACACCATCTCCAGGTTATGCCGCG 65
QY 61 CTGCTCATCTGGCTTTGTGCTGGGCGCCTAGGCAATGGGGTCCGCTGTGTTTC 120
Db 66 CTGCTCATCTGGCTTTGTGCTGGGCGCCTAGGCAATGGGGTCCGCTGTGTTTC 125
QY 121 TGCCTCCACATGAAGACCTGGAGCCGACGACTGTATTACCTTTCAATTGGCCGTGGCT 180
Db 126 TGCCTCCACATGAAGACCTGGAGCCGACGACTGTATTACCTTTCAATTGGCCGTGGCT 185
QY 181 GATTTCCTCTTATGATCTGCTGCCCTTTTCGACAGACATTAATCTCAGACGTAGACAC 240
Db 186 GATTTCCTCTTATGATCTGCTGCCCTTTTCGACAGACATTAATCTCAGACGTAGACAC 245
QY 241 TGGGCTTTTGGGGACATTCCTGCCAGTGGGGCTCTTCAGCTTGGCCATGACAGGGCC 300
Db 246 TGGGCTTTTGGGGACATTCCTGCCAGTGGGGCTCTTCAGCTTGGCCATGACAGGGCC 305
QY 301 GGGAGCATCGTGTTCCTTACGTTGTGGCTTGGCGACAGGTAITTCAGAGTGGTCCACCCC 360
Db 306 GGGAGCATCGTGTTCCTTACGTTGTGGCTTGGCGACAGGTAITTCAGAGTGGTCCACCCC 365
QY 361 CACACGCGGTGACATCTATCTCACCCGGGTGGCGCTGGCATCTGCTGACCCCTGTGG 420
Db 366 CACACGCGGTGACATCTATCTCACCCGGGTGGCGCTGGCATCTGCTGACCCCTGTGG 425
QY 421 GCCCTGGTCACTCTGGGACAGTGTATCTTTTCTGGAGAACCATCTCTGGGTGCAAGAG 480
Db 426 GCCCTGGTCACTCTGGGACAGTGTATCTTTTCTGGAGAACCATCTCTGGGTGCAAGAG 485
QY 481 ACGGCCGTCTCTGTGAGAGCTTTCATCTGGAGTCCGCCCAATGGCTGGCATGACATCATG 540
Db 486 ACGGCCGTCTCTGTGAGAGCTTTCATCTGGAGTCCGCCCAATGGCTGGCATGACATCATG 545
QY 541 TTCCAGCTGGAGTCTTTATGCCCTCGGCATCATCTATTATTGCTCCTTCAAGATTGTT 600
Db 546 TTCCAGCTGGAGTCTTTATGCCCTCGGCATCATCTATTATTGCTCCTTCAAGATTGTT 605

Search completed: July 3, 2004, 06:34:38
Job time : 523 secs

Db 397 CACACGCGCTGAAAGATCTCCAAATGGACAGCAGCATCATCTCTGCTCTCTGCG 456
QY 421 GCCTGGTATCTCTGGAAGATGATCTTTTGTGGAGAACCATCTCTGCGTGGAGAG 480
Db 457 GGCATCACTGTGGCCCTTAACAGTCCACCTCTGAAGAAGATGCTGATCCAGATGGC 516
QY 481 ACCGCGCTCTCTGTGAGAGCTTCATCATGAGTCCGCCAAATGGCTGGCATGACATCATG 540
Db 517 CTGCAAAATGTGTCATGCTTCCAGCATCTGCCATACCTTCGGTGGCAGAGCTATG 576
QY 541 TTCAGCTGAGTCTTTATGCGCTCTGGCATCATCTTTATTTGCTCTCTTCAAGATGTT 600
Db 577 TTCTCTCTGAGTCTCTCTGCGCTCTGGCATCATCTCTGCTCTGCTCAGCCAGATTTATC 636
QY 601 TGGAGCTGAGGCGGAGCAGCTGGCCAGACAGCTCGGATGAGAGGCGACCCGG 660
Db 637 TGGAGCTGCGGAGAG---ACAAATGAGCGGATGCCAAGATCAAGAGAGCCATCAC 693
QY 661 TTCTATGCTGTGGCAATTTGTTTATCATCATGCTTACCTGCCAGCGTCTGTGCTAGA 720
Db 694 TTCTATGCTGTGGCAATTTGTTTATCATCATGCTTACCTGCCAGCGTCTGTGCTAGA 753
QY 721 CTCTATTTCTCTGAGCGTGGCGCTC-----GAGTGGCTGGGATCCCTCT 765
Db 754 ATCCGATCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 813
QY 766 GTCCATGCGGCTGACATAAACCCTGAGCTTACCTGATGAGAGAGGCGACCTGCTGCT 825
Db 814 GTGAGCTGCGGCTTCTTATCATCTGAGCTTACCTGATGAGAGAGGCGACCTGCTGCT 873
QY 826 CTGCTGATTTATTTTCAAGCCCTCTCTTCCAAATTTCAACAGAGCTCAAAATCTGC 885
Db 874 GTGCTGATCTTCTCCAGCCCTCTTCCCACTCTTCTCCCACTTCTCTCCACTTTGATCA 933
QY 886 AGTCTGAAACCCAGAGCGCAGGAGACTCAAAA 919
Db 934 TGCTCCAGGAAGATGACAGGTGAGCCAGATA 967

RESULT 2

US-09-016-434-1259
; Sequence 1259, Application US/09016434
; Patent No. 6500938
; GENERAL INFORMATION:
; APPLICANT: Janice Au-Young
; APPLICANT: Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION
; NUMBER OF SEQUENCES: 1490
; CORRESPONDENCE ADDRESS:
; ADDRESS: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/016,434
; FILING DATE: HEREWITH
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Zeller, Karen J.
; REGISTRATION NUMBER: 37,071

; REFERENCE/DOCKET NUMBER: PA-0002 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 855-0555
; TELEFAX: (650) 845-4166
; INFORMATION FOR SEQ ID NO: 1259:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2051 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GENBANK
; CLONE: G219866
; US-09-016-434-1259

Query Match 35.4%; Score 367.6; DB 4; Length 2051;
Best local similarity 63.9%; Pred. No. 1.3e-96;
Matches 597; Conservative 0; Mismatches 319; Indels 18; Gaps 2;
QY 1 ATGTACAAAGGTCGTGCTGCGCATCGAGGGGACACCATCTCCAGGTGATGCCGCG 60
Db 97 ATAGACAGAGAACTGCTGTGTTCGAGATGACTTCATTGCCAAGGTGTTGCCGCG 156
QY 61 CTCTCATGTGTGCTTGTGCTGGCGCATAGGCAATGGGGTGGCGCTGTGTGTTTC 120
Db 157 GTGTGGGGCTGAGATTATCTTTGGGCTTCTGGGCAATGGCTTGGCCCTGTGATTTTC 216
QY 121 TGCTTCCATGATGAGACTCGAAGCCAGCACTGTTCCTTTCAATTTGGCGCTGCT 180
Db 217 TGTTTCCACTCAAGTCTCGAAATCCAGCGGATTTTCTGTTCATCTGGCAGTACT 276
QY 181 GATTTCCTCTTATGATCTGCTGCTTTCGGACAGACTTATCTCAGACGTAGACAC 240
Db 277 GACTTCTACTGATCATCTGCTGCTTCTGATGAGTACTATGTGCGCGTTTCAGAC 336
QY 241 TGGCTTTTGGGACATTCCTGCGAGTGGGGCTTTCAGTTGGGCTGAGACAGGGCC 300
Db 337 TGGAACTTTGGGACATCCCTTGGCGCTGGTGTCTCTTCATGTTGGCATGAACGCCAG 396
QY 301 GGGAGCATCTGTTCTTACGGTGGTGGCTGCGGACAGTATTTCAAGTGTCCACCC 360
Db 397 GCGAGCATCATCTTCTCAGGTTGGCGGTGAGAGGTATTTCCGGGTGGTCCATCCC 456
QY 361 CACACGCGGTGAACACTATCTCCACCGGCTGGCGCTGCGCATCTGTGACACCTGTGG 420
Db 457 CACACGCGCTGAACAGATCTCCAAATTTGACAGCAGCCCATCATCTCTTGGCTTGTGG 516
QY 421 GCGCTGTGATCTGCGGACAGTATCTTTTGTGAGAGACCATCTCTGCGTGAAGAG 480
Db 517 GGCATCATCTGTTGGCTTAAACAGTCCACCTCTGAAAGAAAGTTGCTGATCCAGATGGC 576
QY 481 ACGGCGCTCTCTGTGAGAGCTTCATCATGAGTCCGCCCAATGGCTGGCATGACATCATG 540
Db 577 CTGCAAAATGTGTCATGCTTCCAGCATCTGCCATACCTTCGGTGGCAGAGCTATG 636
QY 541 TTCAGCTGAGTCTTTATGCGCTCTGGCATCATCTTTATTTGCTCTCTTCAAGATGTT 600
Db 637 TTCTCTCTGAGTCTCTCTGCGCTCTGGCATCATCTGCTTCTCTGCTCAGCCAGATTTATC 696
QY 601 TGGAGCTGAGGCGGAGCAGCTGGCCAGACAGCTCGGATGAGAGGCGACCCGG 660
Db 697 TGGAGCTGCGGAGAG---ACAAATGAGCGGATGCCAAGATCAAGAGAGCCATCAC 753
QY 661 TTCTATGCTGTGGCAATTTGTTTATCATCATGCTTACCTGCCAGCGTCTGTGCTAGA 720
Db 754 TTCTATGCTGTGGCAATTTGTTTATCATCATGCTTCTCTGCTTCTCTCAGCGTGTGTGCGG 813
QY 721 CTCTATTTCTCTGAGCGTGGCGCTC-----GAGTGGCTGGGATCCCTCT 765
Db 814 ATCCGATCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 873
QY 766 GTCCATGCGGCTGACATAAACCCTGAGCTTACCTGATGAGAGAGGCGACCTGCTGCT 825

Db	874	GTGACCTGGCGTCTTTATCACTCTGAGTTCACCTACATGAAACAGCATGCTGAGACCC	933
Qy	826	CTGCTGATTATTTTCAAGCCCTTCCTTCCAAATTTCTACAAAGCTCTAAATCTGC	885
Db	934	GTGCTGACTACTTCTTCAGGCCATCTTTCCCACTTCTTCTCCACTTTGATCAACCGC	993
Qy	886	ASTCTGAACCCCAAGCAGCCAGGACACTCAAAA	919
Db	994	TGCTCCAGAGGAAGATGACAGGTGAGCCAGATA	1027

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1  RESULT 3
2  US-09-023-655-1212
3  ; Sequence 1212, Application US/09023655
4  ; Patent No. 6607879
5  ; GENERAL INFORMATION:
6  ; APPLICANT: Cocks, Benjamin G.
7  ; APPLICANT: Susan G. Stuart
8  ; APPLICANT: Jeffrey J. Seilhamer
9  ; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE
10 ; TITLE OF INVENTION: EXPRESSION
11 ; NUMBER OF SEQUENCES: 1508
12 ; CORRESPONDENCE ADDRESS:
13 ; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
14 ; STREET: 3174 PORTER DRIVE
15 ; CITY: PALO ALTO
16 ; STATE: CALIFORNIA
17 ; COUNTRY: USA
18 ; ZIP: 94304
19 ; COMPUTER READABLE FORM:
20 ; MEDIUM TYPE: Floppy disk
21 ; COMPUTER: IBM PC compatible
22 ; OPERATING SYSTEM: PC-DOS/MS-DOS
23 ; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
24 ; CURRENT APPLICATION DATA:
25 ; APPLICATION NUMBER: US/09/023,655
26 ; FILING DATE: HERewith
27 ; CLASSIFICATION:
28 ; PRIOR APPLICATION DATA:
29 ; APPLICATION NUMBER:
30 ; FILING DATE:

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	Query Match	35.4%	Score 367.6;	DB 4;	Length 2051;
	Best Local Similarity	63.9%;	Pred. No. 1.3e-96;		
	Matches 597;	Conservative 0;	Mismatches 319;	Indels 18;	Gaps 2
Qy	1	ATGTACAACGGGTCTGCTCTGCCGATCGAGGGGACACCATCTCCAGGTGATCGCGCG	60		
Db	97	ATAGACAAGAACTGCTGTGTGTTCCGAGATGACTTCATTTGCCAAGGTGTTGCGCGCG	156		
Qy	61	CTGCTCATTTGGCTCTTGTGCTGGCGGCACATAGCAATGGSGTCCCTCTGTGTGTTTC	120		
Db	157	GTGTTGGSGCTGGAGTTTATCTTTGGGCTTCGGGCAATGGCCCTGCCCTGTGGATTTTC	216		
Qy	121	TGCTTTCCACATGAACACCTGGAAAGCCAGCACTGTTTACCTTTCAATTTGGCCGTGGCT	180		

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RESULT 4
US-09-170-496D-221
; Sequence 221, Application US/09170496D
; Patent NO. 6555339
; GENERAL INFORMATION:
; APPLICANT: Behan, Dominic P.
; APPLICANT: Chalmers, Derek T.
; APPLICANT: Liaw, Chen W.
; TITLE OF INVENTION: NO. 6555339-Endogenous, Constitutively Activated Human G Protein
; FILE REFERENCE: AREN-0040
; CURRENT APPLICATION NUMBER: US/09/170,496D
; CURRENT FILING DATE: 1998-10-13
; NUMBER OF SEQ ID NOS: 294
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 221
; LENGTH: 1164

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; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-170-496D-221

Query Match      35.3%; Score 366; DB 4; Length 1164;
Best Local Similarity 63.8%; Pred. No. 2.9e-96;
Matches 596; Conservative 0; Mismatches 320; Indels 18; Gaps 2;

QY 1 ATGTACACGGTCTGCTGCGCATCGAGGGGACACCATCTCCAGGTGATGCCCGG 60
Db 1 |||||
QY 37 ATAGACAAGAGAACTCTGTGTTCCGAGATGACTTCATTGCCAAGGTGTTGCCCGG 96
Db 37 |||||
QY 61 CTGCTCATTTGGGCTTTGCTGGGCGCACTAGGCAATGGGTCGCCCTGTGTGTTTC 120
Db 61 |||||
QY 97 GTGTTGGGCTGGAGTTTATCTTTGGGCTTCGCGCAATGGCCCTGCGCTGTGATTTTC 156
Db 97 |||||
QY 121 TGTCTCAGATGAAGACTCGAAGCCGAGCACTGTGTTACCTTTTCAATTTGGCGNGGCT 180
Db 121 |||||
QY 157 TGTTCACCTCAAGTCTCGAAATCCAGCGGATTTTCTGTTCAACCTGGCAGTAGCT 216
Db 157 |||||
QY 181 GATTCTCTCTTATGATCTGCTGCTTTCGGACAGACTATTACCTCAGACGTAGACAC 240
Db 181 |||||
QY 217 GACTTCTACTGATCATCTGCTGCGGCTTCGTGATGACTACTATGTGCGGCGTTACAG 276
Db 217 |||||
QY 241 TGGGCTTTTGGGACATTCCTCGCGAGTGGGGCTCTTTCACGTTGGCCATGAACAGGGCC 300
Db 241 |||||
QY 277 TGAAGTTTGGGACATCCCTTGGCGGCTGGTCTCTTCATGTTGCCATGAACCGCCAG 336
Db 277 |||||
QY 301 GGAGCATCTGTTCTTACGTTGGTGGCTGGGACAGGATTTTCAAGTGGTCCACCC 360
Db 301 |||||
QY 337 GGAGCATCATCTCTTCAAGTGGTGGGCTGGGACAGGATTTTCCGGTGGTCCATCCC 396
Db 337 |||||
QY 361 CACACGCGTGAACACTATCTCCACCGGCTGGGCTGGCTGCTGCTGACCTGCTG 420
Db 361 |||||
QY 397 CACACGCGTGAACAGATCTCTCAATGGACAGGACCATCATCTCTGCTCTGTGG 456
Db 397 |||||
QY 421 GCCTGGTCTATCTCGGAACTGTATCTTTTGGTGGAGAACCATCTCTCGCTGCAAGAG 480
Db 421 |||||
QY 457 GGCATCACTGTTGGCTTAACAGTCCACCTCTCTGAAGAGAGTGTCTGATCCAGATGGC 516
Db 457 |||||
QY 481 ACGGCGCTCTCTGTGAGACTTCATCTGAGTGGGCTGGCCAAATGGCTGGCATGACATG 540
Db 481 |||||
QY 517 CTTGCAAAATGTGTGCATCAGCTTCAGCATCTGCATACCTTCGCGTGGCAGCAAGCTATG 576
Db 517 |||||
QY 541 TTTCACTGGAGTTCTTTATGCCCCCTCGCATCATCTTATTTTGTCTCTTCAAGATTGTT 600
Db 541 |||||
QY 577 TTTCTCTGGAGTTCTCTTCTGCCCCCTGGCATCATCTCTGTTCTGCTCAGCCAGATATC 636
Db 577 |||||
QY 601 TGGAGCTGAGCGGAGGAGCAGCTGGCCAGACAGCTCGGATGAAGAGGCGACCCCG 660
Db 601 |||||
QY 637 TGGAGCTGCGGAGAG---ACAAATGGACCGGATGCCAAGATCAAGAGAGCCAAACC 693
Db 637 |||||
QY 661 TTTCACTGGTGGTGAATTTGTTTATCATCATGCTTACTCTGCTGCTGCTGCTGCTGCTG 720
Db 661 |||||
QY 694 TTTCACTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 753
Db 694 |||||
QY 721 CTCTATTTCTCTGAGCGGTGCGCTC-----GAGTGGCTGCGATCCCTCT 765
Db 721 |||||
QY 754 ATCCGATCTCTCTGCTCTGACACTTCCGGGACGAGAAATTTGTAAGTACCGCTG 813
Db 754 |||||
QY 766 GTCCATGGGCGCTGACATAAACCTCAGCTTCACTTACATGAACAGCATGCTGATCCC 825
Db 766 |||||
QY 814 GTGAGCTGGCGTTCTTTATCACTCTCAGCTTCACTTACATGAACAGCATGCTGGACCCC 873
Db 814 |||||
QY 826 CTGCTGATATTTTCAAGCCCTCTCTTCCCAAAATTTCTAACAAGCTCAAAATCTGC 885
Db 826 |||||
QY 874 GTGGTGTACTACTTCTCGAGCCCATCTTTCCCAACTCTCTTCTTCCACTTTGATCAACCGC 933
Db 874 |||||
QY 886 AGTCTGAAACCCCAAGCAGCAGGACACTCAAAA 919
Db 886 |||||
QY 934 TGCCTCCAGGAGATGACAGGTGAGCCAGATA 967
Db 934 |||||
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RESULT 5
US-07-915-966C-1
; Sequence 1, Application US/07915966C
; Patent No. 568006
; GENERAL INFORMATION:
; APPLICANT: Haddock Dr., John R.
; APPLICANT: Ozenberger Dr., Bradley A.
; APPLICANT: Pausch Dr., Mark H.
; TITLE OF INVENTION: Receptor Identification Method
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESS: American Home Products Corporation
; CITY: Parsippany
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07054
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/915,966C
; FILING DATE: 17-JUL-1992
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Matthews, Gale M.
; REGISTRATION NUMBER: 32,269
; REFERENCE/DOCKET NUMBER: 31,829-00
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 201-683-2134
; TELEFAX: 201-683-4117
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 545 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Rat
; PUBLICATION INFORMATION:
; AUTHORS: Haddock Dr., John R.
; AUTHORS: Dr. Ozenberger, Bradley A.
; AUTHORS: Dr. Pausch, Mark H.
; TITLE: Receptor Identification Method
; DATE: 17-JUL-1992
; US-07-915-966C-1
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Query Match      22.1%; Score 229.6; DB 1; Length 545;
Best Local Similarity 65.0%; Pred. No. 7.3e-57;
Matches 356; Conservative 0; Mismatches 189; Indels 3; Gaps 1;

QY 157 TACCTTTTCAATTTGGCGTGGCTGATTTCTCTCTATGATCTGCTGCTTTTCGACA 216
Db 1 TTCGTGGTGAACCTGCTGGGGCTGACTTCTCTGATCATTTGCTTGGCTTCTGACG 60
QY 217 GACTATTATCTCAGACGTAGACACTGGGCTTTTGGGACATTCCTGCGAGTGGGCTC 276
Db 61 GACAACTATGTCCAGAACTGGGACTGGAGCTTCGGAGCATCCCTGCGCGTATGCTC 120
QY 277 TTCAGTTGGCCATGAACAGGGCCGGAGCATGCTGTTCTTACGTTGGTGGCTGGGAC 336
Db 121 TTTATGTTGGCCATGAACCGGACAGGGGACGATCATCTTCTCAGGTGGTGGCTGGAC 180
QY 337 AGTATTTTCAAAAGTGTTCACCCACCGGCTGAACACTATCTCCACCCGGTGGCG 396
Db 181 AGTATCTTCAAGGTGTTCACCCCGGACCATCTTCTGAAACAGATCTCCAAACCGGCG 240
QY 397 GTGGCATGCTCTGCACCCCTGTGGGCGCTGTCATCTCTGGGAAACAGTATCTTTTGTG 456
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[illegible]

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RESULT 6
US-08-771-182-1
; Sequence 1, Application US/08771182
; Patent No. 5929209
; GENERAL INFORMATION:
; APPLICANT: Haddock Dr., John R.
; APPLICANT: Ozenberger Dr., Bradley A.
; APPLICANT: Pausch Dr., Mark H.
; TITLE OF INVENTION: Receptor Identification Method
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: American Home Products Corporation
; STREET: One Campus Drive
; CITY: Parsippany
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07054
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA: US/08/771,182
; APPLICATION NUMBER: US/08/771,182
; FILING DATE: 20-DEC-1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Matthews, Gale F.
; REGISTRATION NUMBER: 32,269
; REFERENCE/DOCKET NUMBER: 31,829-D1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 201-683-2134
; TELEFAX: 201-683-2117
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 545 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Rat
; PUBLICATION INFORMATION:
; AUTHORS: Haddock Dr., John R.
; AUTHORS: Dr. Ozenberger, Bradley A.
; AUTHORS: Dr. Pausch, Mark H.
; TITLE: Receptor Identification Method

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1  RESULT 7
2  US-08-853-194-1
3  ; Sequence 1, Application US/08853194
4  ; Patent No. 6077666
5  ; GENERAL INFORMATION:
6  ; APPLICANT: Hadcock Dr., John R.
7  ; APPLICANT: Ozenberger Dr., Bradley A.
8  ; APPLICANT: Pausch Dr., Mark H.
9  ; TITLE OF INVENTION: Receptor Identification Method
10 ; NUMBER OF SEQUENCES: 19
11 ; CORRESPONDENCE ADDRESS:
12 ; ADDRESSEE: American Cyanamid Company
13 ; STREET: One Cyanamid Plaza
14 ; CITY: Wayne
15 ; STATE: NJ
16 ; COUNTRY: United States of America
17 ; ZIP: 06904-0060
18 ; COMPUTER READABLE FORM:
19 ; MEDIUM TYPE: Floppy disk
20 ; COMPUTER: IBM PC compatible
21 ; OPERATING SYSTEM: PC-DOS/MS-DOS
22 ; SOFTWARE: PatentIn Release #1.0, Version #1.25
23 ; CURRENT APPLICATION DATA:
24 ; APPLICATION NUMBER: US/08/853,194
25 ; FILING DATE:

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CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/915,966
FILING DATE: 17-JUL-1992
ATTORNEY/AGENT INFORMATION:
NAME: Tsevdos Dr., Estelle J.
REGISTRATION NUMBER: 31,145
REFERENCE/DOCKET NUMBER: 31829-00
TELECOMMUNICATION INFORMATION:
TELEPHONE: 203-321-2361
TELEFAX: 203-321-2971
TELEX: 710-474-4059
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 545 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Rat
PUBLICATION INFORMATION:
AUTHORS: Hadcock Dr., John R.
AUTHORS: Dr. Ozenberger, Bradley A.
AUTHORS: Dr. Pausch, Mark
TITLE: Receptor Identification Method
DATE: 17-JUL-1992
US-08-853-194-1

Query Match 22.1%; Score 229.6; DB 3; Length 545;
Best Local Similarity 65.0%; Pred. No. 7.3e-57;
Matches 356; Conservative 0; Mismatches 189; Indels 3; Gaps 1;
QY 157 TACCTTTTCAATTTGGCCGTGATTTCTCTTATGATTCGCTGCTTTTCGGACA 216
Db 1 TTCTGGTGAACCTGTGCGGGCTACTTTCTCTGATCATTTTGTGCGGTTCCTGACG 60
QY 217 GACTATTACTCAGACGTAGACACTGGGCTTTTGGGAGATTCCTCCGAGTGGGGCTC 276
Db 6 GACAACTATGTCAGAACTGGGACTGGAGGTTCGGAGCATCCCTTCCCGCGGTGATGCTC 120
QY 277 TTCAGCTTGGCCATGAACAGGGCCGGAGCATCGTCTTCTTACGGTGGTGGCTGGCGAC 336
Db 121 TTCATGTTGGCCATGAACCCGACAGGGGACGATCATCTTCTCAGCGTGGTGGTGGAC 180
QY 337 AGGTATTTCAAAGTGTGCAACCCGACAGGGGTGAACACTATCTCCACCGGGGTGGG 396
Db 181 AGGTACTTCAGGGTGTGCAACCCGACAGGGGTGCAACACTTCTTGAACAGATCTCCAA 240
QY 397 GCTGGCATCTGTGACCCCTGTGGGCTTGTGTCATCTCTGGGACAGTGTATCTTTTGTG 456
Db 241 GCATCATCTCTGCTTCTCTGTGGGACATCAGCATCGGCTGACATCTCCACCTCTCTAC 300
QY 457 GAGAACCACTCTGCTGCAAGAGACGGCGCTCTCTGTGAGAGCTTCATCATGAGTGC 516
Db 301 ACGGACATGATGACCCGAAACCGGATGCAACCTGTGACGAGTCTTACATCTCTAC 360
QY 517 GCAATGGCTGGCATGACATCATGTTCCAGCTGGAGTCTTATGCCCCCTGGCATCATC 576
Db 361 ACTTTTCAGGTGGCAGATGCAATGTTCTCTTGGAAATCTTCTGCCCCCTGGCATCATC 420
QY 577 TTATTTTGTCTTCAAGATGTTTGGAGCTGAGGCGGAGGAGCAGCTGGCCAGACAG 636
Db 421 CTGTTCTGCTCTGGCAGAGATCATTTGGAGCTTAAGGACAGAG---ACAGATGACAGCAC 477
QY 637 GCTCGGATGAAGGCGGACCGGGTTTCATGAGTGTGGCAATGTGTTTCATCATGTC 696
Db 478 GTCAGATCAAGAGGGCCATCAACTTTCATGAGTGTGGTGTGCAATGTGTTTGGCATCTGC 537
QY 697 TACCTGCC 704
| | | | |

Db 538 TGGCTGCC 545
RESULT 8
US-08-955-713-1
Sequence 1, Application US/08955713
Patent No. 5955308
GENERAL INFORMATION:
APPLICANT: SATHE, GANESH
APPLICANT: MOONEY, JEFFREY
APPLICANT: BERGSMAN, DEBK
APPLICANT: HALSEY, WENDY
TITLE OF INVENTION: CDNA CLONE HEOAD54 THAT ENCODES A HUMAN 7-TRANS
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: RATNER & PRESTIA
STREET: P.O. BOX 980
CITY: VALLEY FORGE
STATE: PA
COUNTRY: USA
ZIP: 19482
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/955,713
FILING DATE: 23-OCT-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/050,124
FILING DATE: 18-JUN-1997
ATTORNEY/AGENT INFORMATION:
NAME: PRESTIA, PAUL F.
REGISTRATION NUMBER: 23,031
REFERENCE/DOCKET NUMBER: GH-70087
TELECOMMUNICATION INFORMATION:
TELEPHONE: 610-407-0700
TELEFAX: 610-407-0701
TELEX: 846169
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1594 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-08-955-713-1
Query Match 18.2%; Score 188.8; DB 2; Length 1594;
Best Local Similarity 54.7%; Pred. No. 8.6e-45;
Matches 445; Conservative 0; Mismatches 357; Indels 12; Gaps 3;
QY 53 TGGCGCGCTGCTCATTTGGCTTTGTCTGGGCGCAGTAGCAATGGGTGCGCCTGT 112
Db 519 TGGCACAATCTGCGCCCTGGAGTTTGTCTGCGCTGTGGGAAACAGTTTGGCCCTCT 578
QY 113 GTGGTTTCTGCTTCCACATGAAGACCTTGAAGCCAGACAGTGTACCTTTTCAATTTGG 172
Db 579 TCATCTTCTGCAATCCACACGCGGCCCTGGACCTCCAAACGGTGTTCCTGTCAGCTGG 638
QY 173 CCGTGTGCTGATTTCTCTTATGATCTGCTCTTTTCGGACAGACTATTACCTCAGAC 232
Db 639 TGGCCGCTGACTTCTCTCTGATCAGCAACCTGCCCCCTCGCGTGGAGTACTACTCTCTCC 698
QY 233 GTAGACATCTGGGCTTTTGGGACATTCCTCTGCGAGTGGGGCTCTTCACTGGCCATGA 292
Db 699 ATGAGACCTTGGGCTTTTGGGCTGCTGCTGCAAGAGTCAACCTCTTCTGCTGTCCACCA 758
QY 293 ACAGGCGCGGAGCATCGTGTTCCTTACGTTGGTGGCTGCGGACAGATTTTCAAAGTGG 352
Db 759 ACGGACGCGGAGCGTTGTCTTCTCAGAGCCATGCACTCAACCCGCTACCTGAGGTGG 818

353 TCCACCCACACCGCGGTGAACACTATCTCCACCGGTGGCGGTGGCATCGTCTGCA 412
819 TCAGCCCCACACCGGTGCTGAGCGGTGCTTCCGTGGGGGAGTGGCCGGTGGCGGG 878
413 CCTGTGGGCGCTGCTCATCTCTGGGAACAGTGTATCTTTTGTGGGAACCACTCTGGG 472
879 GACTCTGGG---TGGGCACTCTGCTCTCAACGGGCACTGCTCTCTGAGCACCTTCTCG 935
473 TGCAGAGAGCGCGCTCTCTGTGAGAGCTTCAATGAGAGTGGCAATGGGTGGCATG 532
936 GCGCCCTCTCTGCTCAGCTACAGGGTGGGCAAGAGCCCTCGGCTCGCTCGGCGACC 995
533 ACATCATGTTCCAGCTGGAGTCTTTATGCCCCCTCGGCATCATCTTATTTGCTCTTCA 592
996 AGGCACGTACCTGCTGGAGTCTTCTGCGCACTGGCGCTCATCTCTTT---GCTATTG 1052
593 AGATTGTTTGGAGCTCTGAGCGGAGGAGCAGAGCTGSCCAGACAGGCTCGGATGAAGAAG 652
1053 TGAGCAATTGGGCTCACCATCCGGAACCGTGTCTGGGCGGGCAGGCGCCGCGAGGG 1112
653 CGACCGGTTTATGAGTGGTGGCAATTTGTTTATCATCATGCTACCTGCGGCGAGTGT 712
1113 CATGCGTGTGCTGGCCATGCTGGTGGCGGCTTACACCATCTCTCTTGGCCAGCATCA 1172
713 CTGCTAGACTCTATTTCTCTGACAGGTGCGCTCGAGTGCCTCGATCCCTCTGTCCATG 772
1173 TCTTTGGCATGGCTTCCATGGTGGCTTCTGGGTGCGGCTCGGCTCGCTGCACTCT 1232
773 GGGCGCTGCACTAA-----CCTCAGCTTCACTACATGAACAGAGCTGGATCCCG 826
1233 GCACACAGCTTCTCCATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1292
827 TGGTGTATTATTTTCAAGCCCTCTCTTCCCAA 860
1293 TGCTCTACTGCTTCTCTAGCCCCAACTTCTTCCA 1326

RESULT 9

US-08-955-713-3
Sequence 3, Application US/08955713
Patent No. 5955308
GENERAL INFORMATION:
APPLICANT: SATHE, GANESH
APPLICANT: MOONEY, JEFFREY
APPLICANT: BERGMA, DEREK
APPLICANT: HALSEY, WENDY
TITLE OF INVENTION: CDNA CLONE HE04D54 THAT ENCODES A HUMAN 7-TRANS
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: RATNER & PRESTIA
STREET: P.O. BOX 980
CITY: VALLEY FORGE
STATE: PA
COUNTRY: USA
ZIP: 19482
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/955,713
FILING DATE: 23-OCT-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/050,124
FILING DATE: 18-JUN-1997
ATTORNEY/AGENT INFORMATION:
NAME: PRESTIA, PAUL F
REGISTRATION NUMBER: 23,031
REFERENCE/DOCKET NUMBER: GH-70087
TELECOMMUNICATION INFORMATION:

TELEPHONE: 610-407-0700
TELEFAX: 610-407-0701
TELEX: 846169
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1435 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-08-955-713-3

Query Match 18.1%; Score 188; DB 2; Length 1435;
Best Local Similarity 54.1%; Pred. No. 1.4e-44;
Matches 440; Conservative 3; Mismatches 359; Indels 12; Gaps 3;

QY 53 TGGCGCGCTGCTCATTTGTGGCCCTTTGTGCTGGCGCACTAGCAATGGGGTGGCCCTGT 112
Db 18 TGGCACCAATCTCTGGCCCTGGAGTTTGTCTGGGCTTGGTGGGAAACAGTTTGGCCCTCT 77
QY 113 GTGGTTTCTGCTTCCACATGAAGACCTGGAAGCCCGACACTGTATTACCTTTCAATTGG 172
Db 78 TCATCTTCTGCATCCACACGCGGCCCTGGACCTTCAACACAGGTGTTCTGTGTGAGCTGG 137
QY 173 CCGTGGCTGATTTCCTCTTATGATCTGCTGCTTTTGGACAGACTATTAACCTCAGAC 232
Db 138 TGGCGCTGACTTCTCTCTGATCAGCAACCTGCGCCCTCGCGTGGACTACTACTCTCTCC 197
QY 233 GTAGACACTGGGCTTTTGGGACATTCCTGCGGAGTGGGGCTCTCAGCTTGGCCATGA 292
Db 198 ATGAGACCTTGGCGCTTTTGGGCTGCTGCTGCAAGTCAACCTCTTCTATGCTGTGCA 257
QY 293 ACAGGCGCGGAGCATCGTGTCTTACCGTGTGGTGGCGGACAGGTATTTCAAAGTGG 352
Db 258 ACCGAGGCGGAGTGTCTTCTCACGCCATCGCACTCAACCGCTACTCTGAGGTGG 317
QY 353 TCCACCCCAACACGCGGTGAACACTATCTCCACCGGCTGGCGTGGGCAATGCTGTGCA 412
Db 318 TGCANCCCCACACGCTGCTGAACCGTCTTCCGTGGGGGCACTGCGGGTGGCGGG 377
QY 413 CCTGTGGGCGCTGCTCATCTTGGGAACAGTGTATCTTTGCTGGAGAACCATCTCTGG 472
Db 378 GAATCTGGG---TGGGCACTCTCTGCTCTCAACGGGNAACCTGCTCTGAAACCTTCTCC 434
QY 473 TGCAAGAGACGCGCTCTCTGTGAGAGCTTCAATGAGTGGCCAAATGGCTGGCATG 532
Db 435 GCGCTCTCTGCTGCTAGCTAGGCTGGGACGACGACCTCGGCTCGCTCGCTGGCACC 494
QY 533 ACATCATGTTCCAGCTGGAGTCTTTATGCGCCCTCGGCATCATCTTATTTGCTCCTTCA 592
Db 495 AGGCACGTACTGCTGGARTTCTCTGCACTGGCGCTCATCTCTTT---GCTATTG 551
QY 593 AGATTGTTTGGAGCTGAGCGGAGGAGCAGAGCTGGCCAGACAGCTCGGATGAGAGG 652
Db 552 TGAGCATTTGGGCTCAACATCCGGAACCGTGTCTGGGCGGAGCAGGCGCCGAGAGGG 611
QY 653 CGACCGGTTTCAATGCTGTGCAATTTCTGTTTCATCATGCTACTGTGCCAGCGCTGT 712
Db 612 CCATGCTGTCCTGGCCATGCTGGTGGCTGTCTACACCACTGCTTCTTGGCCAGCATCA 671
QY 713 CTGCTAGACTCTATTTCTCTGAGCGGTGCGCTCGAGTGGCTGGATGCTCTCTCTCATG 772
Db 672 TCTTTGGCATGGCTTCCATGGTGGCTTCTGCGCTGTCGCGCTGCGGATCCCTGAGACCTCT 731
QY 773 GGGCGCTGCACTAA-----CCTCAGCTTCACTACATGAACAGCATGCTGATCCCC 826
Db 732 GCACACAGCTCTTCCATGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 791
QY 827 TGGTGTATTATTTTCAAGCCCTCTCTTCCCAA 860
Db 792 TGCTCTACTGCTTCTAGCCCCAACTTCTTCCA 825

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RESULT 10
US-09-130-749-1
; Sequence 1, Application US/09130749
; Patent No. 6031090
; GENERAL INFORMATION:
; APPLICANT: SHABON, USMAN
; TITLE OF INVENTION: MOLECULAR CLONING OF A 7TM
; RECEPTOR (GPR31A)
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: RATNER & PRESTIA
; STREET: P.O. Box 980
; CITY: Valley Forge
; STATE: PA
; COUNTRY: USA
; ZIP: 19482
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/130,749
; FILING DATE: 07-AUG-1998
; CLASSIFICATION: UNKNOWN
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: <Unknown>
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: PRESTIA, PAUL F
; REGISTRATION NUMBER: 23,031
; REFERENCE/DOCKET NUMBER: GP-70513
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 610-407-0700
; TELEFAX: 610-407-0701
; TELEX: 846169
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 960 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-130-749-1
Query Match 13.4%; Score 139.2; DB 3; Length 960;
Best Local Similarity 51.4%; Pred. No. 1.6e-30;
Matches 427; Conservative 0; Mismatches 388; Indels 15; Gaps 4;
QY 62 TGCTCATGTGGCCTTTGTGCTGGGCGCCTAGGCAATGGGTGCGCCCTGTGTTCT 121
DB 59 TGCTGGGCTGGAGTGGGCTGGTCTGCTGGGCAAGCGGTGGCGCTTGGACCTTC 118
QY 122 GCTTCCACATGAACACTGAGCCAGCACTGTTACCTTTTCAATTTGCCGCTGCTG 181
DB 119 TGTTCGGGTGAGGTGGAGCCGTACGCTGTCTACCTGCTCAACTGGCCCTGGCTG 178
QY 182 ATTTCCTCTTATGATCTGCTGCTTTTTCGACAGACTATTACCTCAGACGTAGACCT 241
DB 179 ACCTGCTGTTGGCTGGCTGCTGCTTTCTTGGCGGCTTCTACCTGAGCTCCAGGCT 238
QY 242 GGGCTTTGGGACATTCCTTGGCGAGTGGGCTCTTCACTTGGCCATGACAGGCGCG 301
DB 239 GGCATCTGGGCGGTGGCTGGCTGGGCGCTTCTGCTGGACCTCAGCCGAGCG 298
QY 302 GGAGCATCGTCTTCTTACGCTGTGCTGGGACAGTATTTCAAGTGTCTCACCCCG 361
DB 299 TGGGATGGCTTCTTGGCGCGCTTGGCTTTGGACCGGTACCTCGTGTGGTCCACCTC 358
QY 362 ACCACGCGGTGAACACTATCTTCCACCGGCTGGCGCTGGCATCTGTGCACTCTGGG 421
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DB 359 GGCCTTAAGGTCAACCTGCTGCTCTCTCAGGCGGCGCTCGGGGCTCTCGGCGCTCTGGC 418
QY 422 CCCTGGTCACTCTGGGACAGTGTATCTTTTCTGGAGAACCACTCTCTGCTGCAAGAGA 481
DB 419 TCCTGATGCTGCGCCCTCACCCTGCGCGGCTTGTCTCATCTCTGAGGCGGCCAGAACTCCA 478
QY 482 CGGCGCTCTCTGAGAGAGCTTTCATCATGGAGTCGGC-----CAATGGCTGGCATGACA 535
DB 479 CCAGGTGCCACAGTTTCTACTCCAGGGCAGACGGCTCTTTCAGCATCATCTGGCAGGAAG 538
QY 536 TCATGTTCCAGCTGGAGTTCCTTAAGCCCTCGGCAATCATCTTATTTTGTCTCTTCAAGA 595
DB 539 CACTCTCTGCTGCTTCAAGTTTGTCTTCTCCCTTTGGCCTCATCGTGTCTTGCATATGCAAG 598
QY 596 TTGTTGGAGCTGAGCGGAGG---CAGCAGCTGGCCAGACAGGCTCGGATGAAGAAGG 652
DB 599 TCATCAGGCTCTCCAGAAAGACTCCGGAGGCTGAGAAACAGCCCAAGCTTCAGCGGG 658
QY 653 CGACCCGGTTCATGCTGGTGGCAATTTGTTCATCATCATCTACCTGCCCGGCTGT 712
DB 659 CCAGGCACTGGTCACTTGGTGGTGTCTTCTGCTGTCTTCTGCTGCTTCTGCTGCTTCC 718
QY 713 CTGCTAGACT-CTAATTCCTCTGGACGGTGGCCCTCGAGTGGCTCGCATCCCTCTGTCCAT 771
DB 719 TGGCCAGAGTCTGATGACATCTTCCAGAACTCTGGGAGCTGCGGGGCTTTTGTGCGAG 778
QY 772 GGGGCGCT-----GCACATAACCTCAGCTTACCTACATGAACAGCATGCTGATCCCC 826
DB 779 TGCTCATACCTCGGATGTCACGGGAGCTCACCCTACCTGCGACAGTGTCTCAACCCCG 838
QY 827 TGGTGTATTATTTTCAAGCGCTCTTTCCTCCAAATTTCTACAAACAGCTC 876
DB 839 TGGTATAGTCTTCTCAGCGCCCTTACAGGAGCTCTATGAGGCTCTATGAGGCTC 888
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RESULT 11
US-09-130-749-1
; Sequence 1, Application US/09130749
; Patent No. 6031344
; GENERAL INFORMATION:
; APPLICANT: SHABON, USMAN
; APPLICANT: ELSHOURBAGY, NABIL
; TITLE OF INVENTION: MOLECULAR CLONING OF A 7TM
; TITLE OF INVENTION: RECEPTOR (GPR31A)
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: RATNER & PRESTIA
; STREET: P.O. Box 980
; CITY: Valley Forge
; STATE: PA
; COUNTRY: USA
; ZIP: 19482
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/130,749
; FILING DATE: 07-AUG-1998
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: PRESTIA, PAUL F
; REGISTRATION NUMBER: 23,031
; REFERENCE/DOCKET NUMBER: GP-70513
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 610-407-0700
; TELEFAX: 610-407-0701
; TELEX: 846169
; INFORMATION FOR SEQ ID NO: 1:
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SEQUENCE CHARACTERISTICS:
; LENGTH: 960 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-09-130-749-1

Query Match 13.4%; Score 139.2; DB 3; Length 960;
Best Local Similarity 51.4%; Pred. No. 1.6e-30;
Matches 427; Conservative 0; Mismatches 388; Indels 15; Gaps 4;

QY 62 TGCTCATTTGGGCTTTTGTCTGGCGCACTAGGCAATGGGTCGCCCTGTGTGTTCT 121
Db |||||
QY 59 TGCTGGGGCTGGAGTGGGCTGGTCTGCTGGCAAGCGGTGGCGCTGGACCTTCC 118
Db |||||
QY 122 GCTTCCACATGAGACCTGGAAGCCAGCACTGTTTACCTTTTCAATTTGGCCGTGGCTG 181
Db |||||
QY 119 TGTTCGGGTCAGGGTGTGAAGCCGTACGCTGTCTACCTGCTCAACCTGGCCCTGGCTG 178
Db |||||
QY 182 ATTTCCTCTTATGATCTGCTGCTCTTTCGACAGACTATTACCTCAGACGTAGACACT 241
Db |||||
QY 179 ACTGCTGTTGGCTGGCTGCTGCTCTTCTGCGGCTTCTACCTCAGGCTCCAGGCTT 238
Db |||||
QY 242 GGGCTTTTGGGACATTCCTCGCGAGTGGGCTCTTTCAGGTTGGCCATGAACAGGGCCG 301
Db |||||
QY 239 GGCATCTGGGCCGTGTGGGCTGTGGGCCCTGTGGCTTCTGCTGGAACCTCAGCGCAGCG 298
Db |||||
QY 302 GGAGCATGCTGTTCCCTTAAGGTGGTGGCTGGGACAGGTATTTCAAGTGGTTCACCCCT 361
Db |||||
QY 299 TGGGGAATGGCTTCTTCTGGCCGCGTGGCTTTGGAACGGGTACCTCGTGTGGTCCACCCCT 358
Db |||||
QY 362 ACCACGGGTGAACACTATCTCAACCGGCTGGGCTGGCATGCTCTGCAACCTGTGGG 421
Db |||||
QY 359 GGGTTAAGGTCAACTGCTGTCTCTCAGGGCCCTGTGGGCTCTGGGCTCTGCTGGC 418
Db |||||
QY 422 CCCTGTCATCTCTGGGAACTGATATCTTTTGTGGAGAACCAATCTCTGGTGTCAAGAGA 481
Db |||||
QY 419 TCTGTATGTTGGCTTCTCACTGCGCGGCTTGTCTATCTCTGAGCGCGCCAGAACTCCA 478
Db |||||
QY 482 CGGCGCTCTCTGTGAGAGCTTCAATCATGAGTCTGGC-----CAATGGCTGGCATGACA 535
Db |||||
QY 479 CCAGGTGCCACAGTTTCTACTCCAGGCGCAGACGGCTCTCTCAGCATCATCTGGCAGGAAG 538
Db |||||
QY 536 TCATGTTCCAGCTGGAGTCTCTTATGCCCCCTCGGCATCATCTTATTTGCTCTTCAAGA 595
Db |||||
QY 539 CACTCTCTGCTTCACTGTTGCTCTCTCTTGGGCTCTGCTGCTCTGCAATGACAGCA 598
Db |||||
QY 596 TTGTTTGGAGCTTGAAGCGAGG---CAGCAGCTGGCCAGACAGGCTCGGATGAAGAGG 652
Db |||||
QY 599 TCATCAGGGCTCTCCAGAAAGACTCCGGGAGCTTGAGAAACAGCCCAAGCTTCAGCGGG 658
Db |||||
QY 653 CGACCCGGTTCATCATGCTGGTGGCAATTTGTGTTTCATCATGCTACTGCTGCCAGCGTGT 712
Db |||||
QY 659 CCCAGGCACTGGTCACTTGGTGGTGGTGTGCTGCTGCTGCTGCTGCTGCTGCTTCC 718
Db |||||
QY 713 CTGCTAGACT-CTATTTCTCTGAGAGCTTCAATTTGTGTTTCATCATGCTACTGCTGCCAGCGTGT 771
Db |||||
QY 719 TGGCCAGAGTCTCTGATGCAATCTTCAGAAATCTGGGAGCTGCGAGGCTTTGTGCGAG 778
Db |||||
QY 772 GGGGCCCT-----GCACATAACCTCAGCTTACCTACATGAACAGCATGCTGGATCCCC 826
Db |||||
QY 779 TGGCTCATACCTCGAGTGTCAAGGAGCTTCAAGGAGCTTCACTACCTGCAAGTGTGCTCAACCCG 838
Db |||||
QY 827 TGGTGTATTTTCAAGGCTTCTCTTTCGCAATTTCTCAACAGCTC 876
Db |||||
QY 839 TGGTATACCTCTTCTCAGGCGCCACCTTTCAGGAGCTCTCTATGAGGGGTC 888
Db |||||

RESULT 12

US-09-170-496D-195

; Sequence 195, Application US/09170496D

; Patent No. 6555339

GENERAL INFORMATION:

; APPLICANT: Behan, Dominic P.
; APPLICANT: Chalmers, Derek T.
; APPLICANT: Liaw, Chen W.
; TITLE OF INVENTION: No. 6555339-Endogenous, Constitutively Activated Human G Protein
; FILE REFERENCE: AREN-0040
; CURRENT APPLICATION NUMBER: US/09/170,496D
; CURRENT FILING DATE: 1998-10-13
; NUMBER OF SEQ ID NOS: 294
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 195
; LENGTH: 960
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-170-496D-195

Query Match 13.3%; Score 137.6; DB 4; Length 960;

Best Local Similarity 51.3%; Pred. No. 4.7e-30;

Matches 426; Conservative 0; Mismatches 389; Indels 15; Gaps 4;

QY 62 TGCTCATTTGGGCTTTTGTCTGGCGCACTAGGCAATGGGTCGCCCTGTGTGTTCT 121
Db |||||
QY 59 TGCTGGGGCTGGAGTGGGCTGGTCTGCTGGCAAGCGGTGGCGCTGGACCTTCC 118
Db |||||
QY 122 GCTTCCACATGAGACCTGGAAGCCAGCACTGTTTACCTTTTCAATTTGGCCGTGGCTG 181
Db |||||
QY 119 TGTTCGGGTCAGGGTGTGAAGCCGTACGCTGTCTACCTGCTCAACCTGGCCCTGGCTG 178
Db |||||
QY 182 ATTTCCTCTTATGATCTGCTGCTCTTTCGACAGACTATTACCTCAGACGTAGACACT 241
Db |||||
QY 179 ACTGCTGTTGGCTGGCTGCTGCTCTTCTGCGGCTTCTACCTCAGGCTTCCAGGCTT 238
Db |||||
QY 242 GGGCTTTTGGGACATTCCTCGCGAGTGGGCTCTTTCAGGTTGGCCATGAACAGGGCCG 301
Db |||||
QY 239 GGCATCTGGGCCGTGTGGGCTGTGGGCCCTGTGGCTTCTGCTGGAACCTCAGCGCAGCG 298
Db |||||
QY 302 GAGCATCTGCTTCTTACGAGTGGTGGCTGGGACAGGTATTTCAAGTGGTTCACCCCT 361
Db |||||
QY 299 TGGGGAATGGCTTCTTCTGGCCGCGTGGCTTTGGAACGGGTACCTCGTGTGGTCCACCCCT 358
Db |||||
QY 362 ACCACGGGTGAACACTATCTCAACCGGCTGGGCTGGCATGCTCTGCAACCTGTGGG 421
Db |||||
QY 359 GGGTTAAGGTCAACTGCTGTCTCTCAGGGCCCTGTGGGCTCTGGGCTCTGCTGGC 418
Db |||||
QY 422 CCCTGTCATCTCTGGGAACTGATATCTTTTGTGGAGAACCAATCTCTGGTGTCAAGAGA 481
Db |||||
QY 419 TCTGTATGTTGGCTTCTCACTGCGCGGCTTGTCTATCTCTGAGCGCGCCAGAACTCCA 478
Db |||||
QY 482 CGGCGCTCTCTGTGAGAGCTTCAATCATGAGTCTGGC-----CAATGGCTGGCATGACA 535
Db |||||
QY 479 CCAGGTGCCACAGTTTCTACTCCAGGCGCAGACGGCTCTCTCAGCATCATCTGGCAGGAAG 538
Db |||||
QY 536 TCATGTTCCAGCTGGAGTCTCTTATGCCCCCTCGGCATCATCTTATTTGCTCTTCAAGA 595
Db |||||
QY 539 CACTCTCTGCTTCACTGTTGCTCTCTCTTGGGCTCTGCTGCTCTGCAATGACAGCA 598
Db |||||
QY 596 TTGTTTGGAGCTTGAAGCGAGG---CAGCAGCTGGCCAGACAGGCTCGGATGAAGAGG 652
Db |||||
QY 599 TCATCAGGGCTCTCCAGAAAGACTCCGGGAGCTTGAGAAACAGCCCAAGCTTCAGCGGG 658
Db |||||
QY 653 CGACCCGGTTCATCATGCTGGTGGCAATTTGTGTTTCATCATGCTACTGCTGCCAGCGTGT 712
Db |||||
QY 659 CCCAGGCACTGGTCACTTGGTGGTGGTGTGCTGCTGCTGCTGCTGCTGCTTCC 718
Db |||||
QY 713 CTGCTAGACT-CTATTTCTCTGAGAGCTTCAATTTGTGTTTCATCATGCTACTGCTGCCAGCGTGT 771
Db |||||
QY 719 TGGCCAGAGTCTCTGATGCAATCTTCAGAAATCTGGGAGCTGCGAGGCTTTGTGCGAG 778
Db |||||
QY 772 GGGGCCCT-----GCACATAACCTCAGCTTACCTACATGAACAGCATGCTGGATCCCC 826
Db |||||
QY 779 TGGCTCATACCTCGAGTGTCAAGGAGCTTCAAGGAGCTTCACTACCTGCAAGTGTGCTCAACCCG 838
Db |||||
QY 827 TGGTGTATTTTCAAGGCTTCTCTTTCGCAATTTCTCAACAGCTC 876
Db |||||
QY 839 TGGTATACCTCTTCTCAGGCGCCACCTTTCAGGAGCTCTCTATGAGGGGTC 888
Db |||||

Db 576 TGGCTGGTTCCTGAGGCGCTTCACTTCCCGTTTCATCCAGGCTCACTGCTA 635
Qy 588 CTTCAAGATTGTTTGGAGCCTGAGGCGGAGCAGCAGCTGGCCAGACAGGCTCGGATGAA 647
Db 636 CTTGCTGATCATCGCAGCCTGCGCAGGCGCTGCTGTGGAGAGCGCTCAAGACCAA 695
Qy 648 GAAGGCGACCGTTTCATCATGTTGGTGGCAATGTT-----GTTTCATCATGCTA 698
Db 696 GCGAGTGGCGATGATGCCCATAGTGTGGCCATCTTCTGGTGTGCTGTGGCCCTACCA 755
Qy 699 CTTGCCCGAGGCTGTCTGCTAGACTCTATTTCTCTGGACGCTGCTCGAGTGGCTGCGA 758
Db 756 CGTCAACCGTCCGTCTACGTCTGCTGCTACCGAGCCATGGGCGCTCTCTGGCCACCA 815
Qy 759 TCCCTCTGTCCATGGGCGCCCTGCAATACACCTCAGCTTCACTACATGAACAGATGCT 818
Db 816 GCGCATCTCGCCCTGGCAACCGCATCACCTCTGCTCACCAGCCTCAACGGGGCACT 875
Qy 819 GATCCCTCGTGTATTATTT 839
Db 876 CGACCCCATCATGATTCTTT 896

RESULT 15

US-09-016-434-1484
Sequence 1484, Application US/09016434
Patent No. 6500938
GENERAL INFORMATION:
APPLICANT: Janice Au-Young
APPLICANT: Jeffrey J. Seilhamer
TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING
TITLE OF INVENTION: PATHWAY GENE EXPRESSION
NUMBER OF SEQUENCES: 1490
CORRESPONDENCE ADDRESS:
ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
STREET: 3174 PORTER DRIVE
CITY: PALO ALTO
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/016,434
FILING DATE: HEREWITH
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Zeller, Karen J.
REGISTRATION NUMBER: 37,071
REFERENCE/DOCKET NUMBER: PA-0002 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 855-0555
TELEFAX: (650) 845-4166
INFORMATION FOR SEQ ID NO: 1484:
SEQUENCE CHARACTERISTICS:
LENGTH: 1900 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: GENBANK
CLONE: G992699
US-09-016-434-1484

Query Match 10.5%; Score 109; DB 4; Length 1900;
Best Local Similarity 47.1%; Pred. No. 1.3e-21;

Matches 377; Conservative 0; Mismatches 415; Indels 9; Gaps 1;
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Db 795 GCTGTTCCGCTTCTTACCTTCTGGATTTTATCTGGCTTTAGTTGGCAATACCTGCG 854
Qy 108 CTTGTGTGTTTCTGCTTCCACATGAAGCCAGACACTGTGTTTACCTTTTCAA 167
Db 855 TCTGTGGCTTTTCATCGAGACCAAGTCGGGACCCCGGCCAACGTGTTCTGATGCA 914
Qy 168 TTGGCGCTGCTGCTGCTTCTTATGATGCTGCTGCTTTTGGACAGACTATTAATCT 227
Db 915 TCTGGCGTGGCGACTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 974
Qy 228 CAGACGTAGACACTGGGCTTTTGGGCAATTTCCCTGGCGAGTGGGCTCTTCACTGGC 287
Db 975 CTCTGGGAACCACTGGGCAATTTGGGGAATTCGACGACGCTCTCACCGGCTTCTCTCTA 1034
Qy 288 CATGAACAGGCGCGGAGCATGCTGTTCTTACGCTGGTGGCTGGGACAGTATTCAA 347
Db 1035 CTTCAACATGATACGCGAGCATCTACTTCTCCTGATCAGCGCGACCGTTTCTGCG 1094
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Qy 819 GGATCCCTGGTGTATTATTT 839
Db 1575 CGACCCCATCATGATTCTTT 1595

Search completed: July 3, 2004, 08:44:43
Job time : 110 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model
Run on: July 3, 2004, 06:00:01 ; Search time 3245 Seconds
(without alignments)
9552.217 Million cell updates/sec

Title: US-10-076-260-1
Perfect score: 1038
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0
Searched: 27513289 seqs, 14931090276 residues
Total number of hits satisfying chosen parameters: 55026578

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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8: em_hic:*
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13: gb_est4:*
14: gb_est5:*
15: em_estfun:*
16: em_estom:*
17: em_gss_hum:*
18: em_gss_inv:*
19: em_gss_pln:*
20: em_gss_vrt:*
21: em_gss_fun:*
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25: em_gss_rod:*
26: em_gss_pbg:*
27: em_gss_vrl:*
28: gb_gss1:*
29: gb_gss2:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	722.8	69.5	3028	11	AK029064 Mus muscu
3	711.8	68.6	3283	11	AK046700 Mus muscu
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C	5	676	65.1	786	14	CD559498
C	6	672.8	64.8	793	14	CD559497
C	7	669.4	64.5	790	14	CD559496
	8	619.8	59.7	773	14	CD559653
	9	600	57.8	748	14	CD559650
	10	591.4	57.0	743	14	CD559651
	11	584.4	56.3	731	14	CD559652
	12	558.6	53.8	1004	14	CD246157
C	13	453.8	43.7	594	29	CE432388
	14	443.8	42.8	635	14	CB576966
	15	370.8	35.7	2146	11	BC027965
	16	369.2	35.6	2059	11	BC056419
	17	367.6	35.4	2068	11	BC047891
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	19	317.2	30.6	960	9	AL546894
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	42	215.8	20.8	636	12	BI489649
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ALIGNMENTS

RESULT 1	AF345568	1372 bp	mRNA	linear	HTC 02-MAY-2003
LOCUS	Homo sapiens putative chemokine receptor (FKSG80)	cds.	complete		
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ACCESSION	AF345568				
VERSION	AF345568.1				
KEYWORDS	HTC.				
SOURCE	Homo sapiens (human)				
ORGANISM	Homo sapiens				
REFERENCE	1 (bases 1 to 1372)				
AUTHORS	Alberta, E.O., Petersen, R.H., Hughes, K.W. and Lechner, B.				
TITLE	Miscellaneous notes on Pleurotus				
JOURNAL	Persoonia 18, 55-69 (2002)				
REFERENCE	2 (bases 1 to 1372)				
AUTHORS	Wang, Y.-g. and Gong, L.				
TITLE	Molecular cloning of FKSG80, a novel gene encoding a putative chemokine receptor				
JOURNAL	Unpublished				
REFERENCE	3 (bases 1 to 1372)				
AUTHORS	Wang, Y.-g.				
TITLE	Direct Submission				
JOURNAL	Submitted (06-FEB-2001) Beijing FENGKESHENG Function Gene Technology Ltd., 4 Tou Tiao Lu Chang Street, Xuanwu District, Beijing 100050, P.R. China				

FEATURES

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ORIGIN

Query Match 100.0%; Score 1038; DB 11; Length 1372;
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 DB 322 GATTTCCTCTTATGATCGCTGCTGCTTTTGGACAGACTATTACTCTCAGACGTAGACAC 381
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 QY 781 CACATAAACCTCAGCTTTCACCTACATGAACAGCATGCTGGATCCCTCTGGTGTATTTT 840
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AK029064 3028 bp mRNA linear HTC 18-SEP-2003
 Mus musculus 10 days neonate skin cDNA, RIKEN full-length enriched
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 sequence.
 AK029064
 AK029064.1 GI:26325037
 HTC; CAP trapper.
 Mus musculus (house mouse)
 Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1
 Carninci,P., Shibata,Y., Hayatsu,N., Sugahara,Y., Shibata,K.,
 Itoh,M., Konno,H., Okazaki,Y., Muramatsu,M. and Hayashizaki,Y.
 Normalization and subtraction of cap-trapper-selected cDNAs to
 prepare full-length cDNA libraries for rapid discovery of new genes
 Genome Res. 10 (10), 1617-1630 (2000)
 20499374
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 Shibata,K., Itoh,M., Aizawa,K., Nagao,S., Sasaki,N., Carninci,P.,
 Konno,H., Akiyama,J., Nishi,K., Katsunai,T., Tashiro,H., Itoh,M.,
 Sumi,N., Ishii,X., Nakamura,S., Hazama,M., Nishine,T., Harada,A.,
 Yamamoto,R., Matsumoto,H., Sakaguchi,S., Ikegami,T., Kashiwagi,K.,
 Fujiwaka,S., Inoue,K., Togawa,Y., Izawa,M., Ohara,E., Watahiki,M.,
 Yoneda,Y., Ishikawa,T., Ozawa,K., Tanaka,T., Matsunara,S., Kawai,J.,
 Okazaki,Y., Muramatsu,M., Inoue,Y., Kira,A. and Hayashizaki,Y.
 RIKEN integrated sequence analysis (RISA) system--384-format
 sequencing pipeline with 384 multicapillary sequencer
 Genome Res. 10 (11), 1757-1771 (2000)
 20530913
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 The RIKEN Genome Exploration Research Group Phase II Team and the
 FANTOM Consortium.
 Functional annotation of a full-length mouse cDNA collection
 Nature 409, 685-690 (2001)

RESULT 2
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 ACCESSION
 VERSION
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 SOURCE
 ORGANISM
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 REFERENCE
 AUTHORS
 TITLE
 JOURNAL

AK046700 3283 bp mRNA linear HTC 20-SEP-2003
 LOCUS Mus musculus 4 days neonate male adipose cDNA, RIKEN full-length
 DEFINITION enriched library. Clone:B430318H17 product:similar to PUTATIVE
 CHEMOKINE RECEPTOR (G PROTEIN-COUPLED RECEPTOR) [Homo sapiens],
 full insert sequence.
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 KEYWORDS HTc; CAP trapper.
 SOURCE Mus musculus (house mouse)
 ORGANISM Mus musculus
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 AUTHORS Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K.,
 Itoh, M., Konno, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.
 TITLE Normalization and subtraction of cap-trapper-selected cDNAs to
 prepare full-length cDNA libraries for rapid discovery of new genes
 JOURNAL Genome Res. 10 (10), 1617-1630 (2000)
 MEDLINE 20499374
 PUBMED 11042159
 REFERENCE
 AUTHORS Shibata, K., Itoh, M., Aizawa, K., Nagasaka, S., Sasaki, N., Carninci, P.,
 Konno, H., Akiyama, J., Nishi, K., Kitsuai, T., Tashiro, H., Itoh, M.,
 Sumi, N., Ishii, Y., Nakamura, S., Hazama, M., Nishine, T., Harada, A.,
 Yamamoto, R., Matsumoto, H., Sakaguchi, S., Ikegami, T., Kashiwagi, K.,
 Fujiwara, S., Inoue, K., Tozawa, Y., Izawa, M., Ohara, E., Watahiki, M.,
 Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsuura, S., Kawai, J.,
 Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A. and Hayashizaki, Y.
 TITLE RIKEN integrated sequence analysis (RISA) system--384-format
 JOURNAL sequencing pipeline with 384 multicapillary sequencer
 MEDLINE Genome Res. 10 (11), 1757-1771 (2000)
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 AUTHORS 11076861
 TITLE The RIKEN Genome Exploration Research Group Phase II Team and the
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 REFERENCE Nature 409, 685-690 (2001)
 AUTHORS 5
 TITLE The FANTOM Consortium and the RIKEN Genome Exploration Research
 JOURNAL Group Phase I & II Team.
 REFERENCE Analysis of the mouse transcriptome based on functional annotation
 of 60,770 full-length cDNAs
 JOURNAL Nature 420, 563-573 (2002)
 AUTHORS 6 (bases 1 to 3283)
 Adachi, J., Aizawa, K., Akimura, T., Arakawa, T., Bono, H., Carninci, P.,
 Fukuda, S., Furuno, M., Hanagaki, T., Hara, A., Hashizume, M.,
 Hayashida, K., Hayatsu, N., Hiramoto, K., Hiraoka, T., Hirozane, T.,
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 Katoh, H., Kawai, J., Kojima, Y., Kondo, S., Konno, H., Kouda, M.,
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 Sogabe, Y., Tagami, M., Tagawa, A., Takahashi, F., Takaku-Akahira, S.,
 Takeda, Y., Tanaka, T., Tomaru, A., Toya, T., Yasunishi, A.,
 Muramatsu, M. and Hayashizaki, Y.
 TITLE Direct Submission
 JOURNAL Submitted (16-JUL-2001) Yoshihide Hayashizaki, The Institute of
 Physical and Chemical Research (RIKEN), Laboratory for Genome
 Exploration Research Group, RIKEN Genomic Sciences Center (GSC),
 RIKEN Yokohama Institute, 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama,
 Kanagawa 230-0045, Japan [E-mail: genome-res@gsr.riken.go.jp,
 URL: http://genome.gsc.riken.go.jp/, Tel: 81-45-503-9222,
 Fax: 81-45-503-9216]
 COMMENT cDNA library was prepared and sequenced in Mouse Genome

Encyclopedia Project of Genome Exploration Research Group in Riken
 Genomic Sciences Center and Genome Science Laboratory in RIKEN.
 Division of Experimental Animal Research in Riken contributed to
 prepare mouse tissues.
 Please visit our web site for further details.
 URL: http://genome.gsc.riken.go.jp/
 URL: http://fantom.gsc.riken.go.jp/.

FEATURES

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Db 1320 ACCCGCAGGAGCGACGAGAGCGGAGGCTCAGAGAGATGCAATTTGCAACCTCTGCTG 1379
Qy 960 CAGGAGTTCATCAGTGTGCAAAATAGTTTCCAAAGCCAGTCTGATGCGCAATGGGATCC 1019
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Qy 1020 CCA 1022
Db 1440 CCA 1442

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RESULT 4
CD559495/c
LOCUS
DEFINITION AGENCOURT 14497073 NIH MGC 195 Homo sapiens cDNA clone
IMAGE:6971820 5', mRNA sequence.
ACCESSION CD559495
VERSION CD559495.2 GI:38453559
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 792)
NIH-MGC http://mgi.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
On Jun 10, 2003 this sequence version replaced gi:31585563.
Contact: Daniela S. Gerhard, Ph.D.
Office of Cancer Genomics
National Cancer Institute / NIH
Bldg. 31 Rm10A07 Bethesda, MD 20892
Email: cgabbs-r@mail.nih.gov
Tissue Procurement: Narayan Bhat
cDNA Library Preparation: Bhat Laboratory
DNA Sequencing by: The I.M.A.G.E. Consortium (LLNL)
Clone distribution: Agencourt Bioscience Corporation
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: IRBK2 row: c column: 11
High quality sequence start: 9
High quality sequence stop: 726.
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/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:6971820"

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FEATURES

source

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/tissue_type="mixed"
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/notes="Vector: pDNR-Dual; Site 1: loxp-Sall; Site 2:
loxP-HindIII; Clones from this library have been
PCR-amplified using gene-specific primers to contain the
complete open reading frame (based on known gene sequences
available from NCBI's RefSeq). Template for PCR is cDNA
derived from either pooled cytoplasmic polyA RNA from 30
cells lines or pooled total RNA from 10 different tissues
(from BD Biosciences/Clontech and Washington University).
PCR products are directionally cloned into the loxp sites
of the pDNR-Dual vector. Library constructed by Dr.
Narayan Bhat, Earl Bere III and Hongling Liac (Gene
Expression Laboratory, Research Technology Program, SAIC
Frederick, NCI-Frederick, Frederick, MD 21702). For
information on which gene each clone represents, please
visit our anonymous ftp site at
ftp://image.llnl.gov/image/rearrayed_plates/IRBK.presv.dat
a Note: this is a NIH MGC Library."

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ORIGIN

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Query Match 68.0%; Score 705.4; DB 14; Length 792;
Best Local Similarity 98.8%; Pred. No. 9.6e-179;
Matches 718; Conservative 0; Mismatches 8; Indels 1; Gaps 1;
Qy 312 GTTCCTTACGCTGTGCTGGACAGGTAATTTCAAAGTGGTCCACCCACACGCGGT 371
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Qy 372 GAACACTATCTCCACCGGCTGGGCTGGCATGCTGACCCCTGTGGGCGCTGGTCTAT 431
Db 699 GAACACTATCTCCACCGGCTGGGCTGGCATGCTGACCCCTGTGGGCGCTGGTCTAT 640
Qy 432 CTGGGAAACAGTGTATCTTTTGTGGAGAACCATCTCTGGTGAAGAGAGCGCGCTCTC 491
Db 639 CTGGGAAACAGTGTATCTTTTGTGGAGAACCATCTCTGGTGAAGAGAGCGCGCTCTC 580
Qy 492 CTGTGAGAGTTTCAATCATGAGTGGCCAAATGGCTGGCATGACATCATGTTCCAGCTGGA 551
Db 579 CTGTGAGAGTTTCAATCATGAGTGGCCAAATGGCTGGCATGACATCATGTTCCAGCTGGA 520
Qy 552 GTTCTTTATGCCCCCTCGGATCATCTTATTTTGTCTCTCAAGATTGTTGGAGACCTTAG 611
Db 519 GTTCTTTATGCCCCCTCGGATCATCTTATTTTGTCTCTCAAGATTGTTGGAGACCTTAG 460
Qy 612 GCGGAGGACAGCTGGCCAGACAGAGCTCGGATGAAGAGCGGACCCGGTTTCATCATGGT 671
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Qy 672 GGTGGCAATTTGTTTCATCATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 731
Db 399 GGTGGCAATTTGTTTCATCATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 340
Qy 732 CTGGAGCGTCCCTCGAGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 791
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Db 159 CTCAAAACACAAAGCGGAGAGATGCCAATTTTCGACCTCGGTGCGAGGATGGTGCAT 100
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QY 1032 GTGAC 1038
Db 39 GTGAC 33

RESULT 5
CD559498/c
LOCUS
DEFINITION
AGENCOURT_14496820 NIH_MGC_195 Homo sapiens cDNA clone
IMAGE:6971816 5', mRNA sequence.
CD559498
CD559498.2 GI:38453562
EST.
SOURCE
Homo sapiens (human)
ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 786)
NIH-MGC http://mgi.nci.nih.gov/
TITLE
National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL
Unpublished (1999)
COMMENT
On Jun 10, 2003 this sequence version replaced gi:31585566.
Contact: Daniela S. Gerhard, Ph.D.
Office of Cancer Genomics
National Cancer Institute / NIH
Bldg. 31 Rm10A07 Bethesda, MD 20892
Email: cgaabs-r@mail.nih.gov
Tissue Procurement: Narayan Bhat
cDNA Library Preparation: Bhat Laboratory
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://images.llnl.gov
Plate: IRBK2 row: c column: 07
High quality sequence start: 3
High quality sequence stop: 706.
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/db_xref="taxon:9606"
/clone="IMAGE:6971816"
/tissue_type="mixed"
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/clone_lib="NIH_MGC_195"
/notes="Vector: pDNR-Dual; Site 1: loxP-Sali; Site 2:
loxP-HindIII; Clones from this library have been
PCR-amplified using gene-specific primers to contain the
complete open reading frame (based on known gene sequences
available from NCBI's RefSeq). Template for PCR is cDNA
derived from either pooled cytoplasmic polyA RNA from 30
cells lines or pooled total RNA from 10 different tissues
(from BD Biosciences/Clontech and Washington University).
PCR products are directionally cloned into the loxP sites
of the pDNR-Dual vector. Library constructed by Dr.
Narayan Bhat, Earl Bere III and Hongling Liao (Gene
Expression Laboratory, Research Technology Program, SAIC
Frederick, NCI-Frederick, Frederick, MD 21702). For
information on which gene each clone represents, please
visit our anonymous ftp site at
ftp://image.llnl.gov/image/rearrayed_plates/IRBK.presv.dat
a Note: this is a NIH_MGC Library."

ORIGIN
Query Match 65.1%; Score 676; DB 14; Length 786;
Best Local Similarity 98.0%; Pred. No. 8.1e-171;
Matches 717; Conservative 0; Mismatches 10; Indels 5; Gaps 3;

QY 297 GCGCGGAGCATGCTCTCTTACGCTGGTGGGACAGGATTTCAAGTGTCCA 356
Db 765 GCGCGGAGCATGCTCTCTTACGCTGGTGGGACAGGATTT--CAAGTGTCCA 710

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FEATURES
source

ORIGIN

Query Match 65.1%; Score 676; DB 14; Length 786;
Best Local Similarity 98.0%; Pred. No. 8.1e-171;
Matches 717; Conservative 0; Mismatches 10; Indels 5; Gaps 3;

QY 297 GCGCGGAGCATGCTCTCTTACGCTGGTGGGACAGGATTTCAAGTGTCCA 356
Db 765 GCGCGGAGCATGCTCTCTTACGCTGGTGGGACAGGATTT--CAAGTGTCCA 710

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QY 357 CCCCACACACGCGGTGAACACTATCTCCACCCGGGTGGCGCTGGCATCGTCTGCACCT 416
Db 709 CCCCACACACGCGG--GAACACTATCTCCACCCGGGTGGCGCTGGCATCGTCTGCACCT 651

QY 417 GTGGCCCTGGTCACTCTCTGGGAAACAGTGTATCTTTTGTGGAGAACCACTCTCTGGTGCA 476
Db 650 GTGGCCCTGGTCACTCTCTGGGAAACAGTGTATCTTTTGTGGAGAACCACTCTCTGGTGCA 591

QY 477 AGAGACGGCGCTCTCTCTGGAGAGCTTTCATCATGGAGTCGGCCCAATGGTGGCATGACAT 536
Db 590 AGAGACGGCGCTCTCTCTGGAGAGCTTTCATCATGGAGTCGGCCCAATGGTGGCATGACAT 531

QY 537 CATGTTCCAGCTGGAGTCTTTATGCCCCCTGGGCATCATCTTATTTTGTCTCTCAAGAT 596
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QY 597 TGTGTGAGGCTCTGAGCGGAGGAGCAGCTGGCCAGACAGGCTCGGATGAAGAAGGCGAC 656
Db 470 TGTGTGAGGCTCTGAGCGGAGGAGCAGCTGGCCAGACAGGCTCGGATGAAGAAGGCGAC 411

QY 657 CCGGTTTCATCATGGTGGTGGCAATTGTGTTCATCATCATCATCTCTGCCCAGCGTGTCTGC 716
Db 410 CCGGTTTCATCATGGTGGTGGCAATTGTGTTCATCATCATCATCTCTGCCCAGCGTGTCTGC 351

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QY 837 TTTTCAAGCCCTCTCTTTTCCAAAATTTCTACAAGCTCAAAATCTGCACTGTGAACACC 896
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QY 897 CAAGCAGCAGGACACTCAAAAACACAAAGCCGGAGAGATGCCAATTTTCGAACCTCGG 956
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Db 50 TCCCCACATTGT 39

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RESULT 6
CD559497/c

LOCUS
DEFINITION
AGENCOURT_14496881 NIH_MGC_195 Homo sapiens cDNA clone
IMAGE:6971817 5', mRNA sequence.

ACCESSION
CD559497

VERSION
CD559497.2 GI:38453561

KEYWORDS
EST.

SOURCE
Homo sapiens (human)

ORGANISM

Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 793)

NIH-MGC http://mgi.nci.nih.gov/

Unpublished (1999)

National Institutes of Health, Mammalian Gene Collection (MGC)

On Jun 10, 2003 this sequence version replaced gi:31585565.

Contact: Daniela S. Gerhard, Ph.D.

Office of Cancer Genomics

National Cancer Institute / NIH

Bldg. 31 Rm10A07 Bethesda, MD 20892

Email: cgaabs-r@mail.nih.gov

Tissue Procurement: Narayan Bhat

cdNA Library Preparation: Bhat Laboratory
 cdNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Agencourt Bioscience Corporation
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
 Plate: IRBK2 row: c column: 08
 High quality sequence start: 5
 High quality sequence stop: 715.
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 /mol_type="mRNA"
 /db_xref="taxon:9606"
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 /tissue_type="mixed"
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 /clone_lib="NIH MGC 195"
 /note="Vector: pDNR-Dual; Site 1: loxP-Sali; Site 2:
 loxP-HindIII; Clones from this library have been
 PCR-amplified using gene-specific primers to contain the
 complete open reading frame (based on known gene sequences
 available from NCBI's RefSeq). Template for PCR is cdNA
 derived from either pooled cytoplasmic polyA RNA from 30
 cells lines or pooled total RNA from 10 different tissues
 (from BD Biosciences/Clontech and Washington University).
 PCR products are directionally cloned into the loxP sites
 of the pDNR-Dual vector. Library constructed by Dr.
 Narayan Bhat, Earl Bere III and Hongling Liao (Gene
 Expression Laboratory, Research Technology Program, SAIC
 Frederick, NCI-Frederick, Frederick, MD 21702). For
 information on which gene each clone represents, please
 visit our anonymous ftp site at
ftp://image.llnl.gov/image/rearranged_plates/IRBK.presv.dat
 a Note: this is a NIH MGC Library."

ORIGIN

Query Match 64.8%; Score 672.8; DB 14; Length 793;
 Best Local Similarity 97.7%; Pred No. 5,9e-170;
 Matches 715; Conservative 0; Mismatches 12; Indels 5; Gaps 3;

QY 297 GCGCGGAGCATGCTGTTCTTACGGTGTGGCTGCGGACAGATATTTCAAGTGTGCA 356
 Db 766 GCGCGGAGCATGCTGTTCTTACGGTGTGGCTGCGGACAG-TATTTCAAGGTGCA 711

QY 357 CCCCACACACGGGTGAACATATCTCCACCGGTTGGCGGTGGCATGTTGTCACCT 416
 Db 710 CCCCACACACCGG-GAACATATCTCCACCGGTTGGCGGTGGCATGTTGTCACCT 652

QY 417 GTGGGCGCTGCTCATCTCGGAAACAGTGTATCTTTTGTGGAGAACCATCTCTGGTGCA 476
 Db 651 GTGGGCGCTGCTCATCTCGGAAACAGTGTATCTTTTGTGGAGAACCATCTCTGGTGCA 592

QY 477 AGAGACGGCGCTCTCTGTGAGAGCTTCATCATGAGTGGCCAAATGGCTGCGATGACAT 536
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QY 537 CATGTTCCAGCTGAGTTCCTTATGCGCCCTCGGATCATCTTATTTGCTCTTCAAGAT 596
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QY 597 TGTTTGGAGCCTGAGCGGAGGAGCAGCTGGCCAGACAGCTCGGATGAAGAGGGCAG 656
 Db 471 TGTTTGGAGCCTGAGCGGAGGAGCAGCTGGCCAGACAGCTCGGATGAAGAGGGCAG 412

QY 657 CCGGTTCAATGATGTTGGCAATGTGTTTCATCATGCTACCTGCCAGCGTGTCTGC 716
 Db 411 CCGGTTCAATGATGTTGGCAATGTGTTTCATCATGCTACCTGCCAGCGTGTCTGC 352

QY 717 TAGACTCTATTTCTCTGACGGTGCCTCGAGTGCCTGCGATCCCTCTGTCTCATGGGCG 776
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QY 777 CTTGCAATTAACCTCAGCTTCACTACATGAACAGCATGCTGGATCCCTGGTGTATTA 836
 Db 291 CTTGCAATTAACCTCAGCTTCACTACATGAACAGCATGCTGGATCCCTGGTGTATTA 232

QY 837 TTTTTCAGGCGCTCTCTTCCCAATTTCTACAAAGCTCAAAATCTGCACTCTGAAC 896
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QY 897 CAAGCAGCAGGAGCATCTCAAAAACACAAAGCGCCGAGAGATGCCAATTTCCAACTCGG 956
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 Db 111 TCCAGGAGTTGTCATGCTGTGGCAATAGTTTCCAAAGCCAGTCTGATGGCAATGGGA 52

QY 1017 TCCCCACATGTT 1028
 Db 51 TCCCCACATGTT 40

RESULT 7
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LOCUS AGENCOURT_14497010 NIH_MGC_195 Homo sapiens cdNA clone
 DEFINITION IMAGE:6971819 5', mRNA sequence.
 CD559496
 VERSION CD559496.2 GI:38453560
 KEYWORDS EST.
 SOURCE Homo sapiens (human)

ACCESSION

CD559496
 EST.
 SOURCE Homo sapiens (human)

ORGANISM

Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE

1 (bases 1 to 790)
 NIH-MGC <http://imgc.nci.nih.gov/>
 National Institutes of Health, Mammalian Gene Collection (MGC)
 Unpublished (1999)

AUTHORS

On Jun 10, 2003 this sequence version replaced gi:31585564.
 Contact: Daniela S. Gerhard, Ph.D.
 Office of Cancer Genomics
 National Cancer Institute / NIH
 Bldg. 31 Rm10A07 Bethesda, MD 20892
 Email: cgabbs-r@mail.nih.gov

TITILE

Tissue Procurement: Narayan Bhat
 cdNA Library Preparation: Bhat Laboratory
 cdNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Agencourt Bioscience Corporation

COMMENT

Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
 Plate: IRBK2 row: c column: 10
 High quality sequence stop: 703.

FEATURES

Location/Qualifiers
 1. 790
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:6971819"
 /tissue_type="mixed"
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 /clone_lib="NIH_MGC_195"
 /note="Vector: pDNR-Dual; Site 1: loxP-Sali; Site 2:
 loxP-HindIII; Clones from this library have been
 PCR-amplified using gene-specific primers to contain the
 complete open reading frame (based on known gene sequences
 available from NCBI's RefSeq). Template for PCR is cdNA
 derived from either pooled cytoplasmic polyA RNA from 30
 cells lines or pooled total RNA from 10 different tissues
 (from BD Biosciences/Clontech and Washington University).
 PCR products are directionally cloned into the loxP sites
 of the pDNR-Dual vector. Library constructed by Dr.
 Narayan Bhat, Earl Bere III and Hongling Liao (Gene
 Expression Laboratory, Research Technology Program, SAIC

Frederick, NCI-Frederick, Frederick, MD 21702). For information on which gene each clone represents, please visit our anonymous ftp site at http://image.llnl.gov/image/rearay_plates/IRBK.preSV.dat a Note: this is a NIH_MGC Library."

ORIGIN

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Query Match      64.5%; Score 669.4; DB 14; Length 790;
Best Local Similarity 97.6%; Pred. No. 4.9e-169;
Matches 590; Conservative 0; Mismatches 16; Indels 1; Gaps 1;

QY 328 GCTCGGACAGGTATTTCAAAGTGTTCACCCACACGCGGTGAAACATATCTCCACC 387
Db 735 GGTCTGCGACAGGTATTTCAAAGTGTTCACCCACACGCGGTGAAACATATCTCCACC 577
QY 388 CGGCTGGCGGTGGCATGCTGTCACCTCTGGGCGCTGTCATCTGGGAACAGTGTAT 447
Db 676 CGGCTGGCGGTGGCATGCTGTCACCTCTGGGCGCTGTCATCTGGGAACAGTGTAT 617
QY 448 CTCTTGCTGGAGAACCATCTCTGCTGCAAGAGCGCGCTCTCTGTGAGAGCTTCATC 507
Db 616 CTCTTGCTGGAGAACCATCTCTGCTGCAAGAGCGCGCTCTCTGTGAGAGCTTCATC 557
QY 508 ATGAGTCCGCAATGCTGTCGATGACATCATGTTCCAGCTGGAGTCTTTATGCCCTC 567
Db 556 ATGAGTCCGCAATGCTGTCGATGACATCATGTTCCAGCTGGAGTCTTTATGCCCTC 497
QY 568 GGCATCATCTTATTTGCTCTCTTCAAGTATGTTGGAGCGCTGAGCGGAGCAGGTG 627
Db 496 GGCATCATCTTATTTGCTCTCTTCAAGTATGTTGGAGCGCTGAGCGGAGCAGGTG 437
QY 628 GCCAGACAGGCTCGGATGAAGAGCGCGCTTCATCATGTTGGTGGCAATTTGTTTC 687
Db 436 GCCAGACAGGCTCGGATGAAGAGCGCGCTTCATCATGTTGGTGGCAATTTGTTTC 377
QY 688 ATCATGCTACTGCTGCCAGCGTGTCTGCTAGACTTATTTCTCTGACCGTGGCCCTG 747
Db 376 ATCATGCTACTGCTGCCAGCGTGTCTGCTAGACTTATTTCTCTGACCGTGGCCCTG 317
QY 748 AGTCCCTGCGATCCCTCTGTCATGCGCGCTGTCACATGAGCTTCACCTACATG 807
Db 316 AGTCCCTGCGATCCCTCTGTCATGCGCGCTGTCACATGAGCTTCACCTACATG 257
QY 808 AACAGCATGCTGGATCCCTGCTGTATTTATTTTCAAGCCCTCTCTTCCCAATTTCTAC 867
Db 256 AACAGCATGCTGGATCCCTGCTGTATTTATTTTCAAGCCCTCTCTTCCCAATTTCTAC 197
QY 868 AACAGCTCAAAATCTGCGAGTCTGAACCCAGCAGCGAGACACTCAAAACACAAAGG 927
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QY 928 CCGGAAGAGATGCCAATTTGGAATCTGGTGCAGGAGTTCATCAGTGGCAATAGT 987
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RESULT 8

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LOCUS
DEFINITION AGENCOURT 14496792 NIH MGC 195 Homo sapiens cDNA clone
IMAGE: 6971816 5', mRNA sequence.
CD559653
VERSION CD559653.2 GI:38559026
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 773)
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AUTHORS
TITLE
JOURNAL
COMMENT

NIH-MGC <http://mgc.nci.nih.gov/>.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
On Jun 10, 2003 this sequence version replaced gi:31585721.
Contact: Daniela S. Gerhard, Ph.D.
Office of Cancer Genomics
National Cancer Institute / NIH
Bldg. 31 Rm10A07 Bethesda, MD 20892
Email: cgabbs-remail.nih.gov
Tissue Procurement: Narayan Bhat
cDNA Library Preparation: Bhat Laboratory
DNA Sequencing by: The I.M.A.G.E. Consortium (LLNL)
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
Plate: IRBK2 row: c column: 07
High quality sequence start: 9
High quality sequence stop: 740.

FEATURES
source

1..773
Location/Qualifiers
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/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:6971816"
/tissue_type="mixed"
/lab_host="DHSA (T1 phage-resistant)"
/clone_lib="NIH_MGC_195"
/note="Vector: pDNR-Dual; Site 1: loxP-SalI; Site 2:
loxP-HindIII; Clones from this library have been
PCR-amplified using gene-specific primers to contain the
available open reading frame (based on known gene sequences
derived from NCBI's RefSeq). Template for PCR is cDNA
cells lines or pooled total RNA from 10 different tissues
(from BD Biosciences/Clontech and Washington University).
PCR products are directionally cloned into the loxP sites
of the pDNR-Dual vector. Library constructed by Dr.
Narayan Bhat, Earl Bere III and Hongling Liao (Gene
Expression Laboratory, Research Technology Program, SAIC
Frederick, NCI-Frederick, Frederick, MD 21702). For
information on which gene each clone represents, please
visit our anonymous ftp site at
http://image.llnl.gov/image/rearay_plates/IRBK.preSV.dat
a Note: this is a NIH_MGC Library."

ORIGIN

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Query Match      59.7%; Score 619.8; DB 14; Length 773;
Best Local Similarity 98.6%; Pred. No. 1.2e-155;
Matches 624; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

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QY 61 CTGCTCATTTGGGCTTTGTCGCGGCACTAGGCGGCTCGCCCTGTGCTGTTTC 120
Db 201 CTGCTCATTTGGGCTTTGTCGCGGCACTAGGCGGCTCGCCCTGTGCTGTTTC 260
QY 121 TGCTTCCACATGAAGACCTGGAAGCCCGACCTGTTTACCTTTTCAATTTGGCCGTGGCT 180
Db 261 TGCTTCCACATGAAGACCTGGAAGCCCGACCTGTTTACCTTTTCAATTTGGCCGTGGCT 320
QY 181 GATTTCTCTTATGATCTGCTGCTGCTTTTGGGACAGCATATTAACCTCAGACGTAGACAC 240
Db 321 GATTTCTCTTATGATCTGCTGCTGCTTTTGGGACAGCATATTAACCTCAGACGTAGACAC 380
QY 241 TGGGCTTTTGGGACATTTCCCTGCGAGTGGGCTCTTTCAGCTGGGCGCATCAACAGGCGCC 300
Db 381 TGGGCTTTTGGGACATTTCCCTGCGAGTGGGCTCTTTCAGCTGGGCGCATCAACAGGCGCC 440
QY 301 GGGAGCATCGTGTTCCTTACGCTGGTGGTCTGCGGACAGGTATTTCAAAGTGGTCCACCCC 360
Db 301 GGGAGCATCGTGTTCCTTACGCTGGTGGTCTGCGGACAGGTATTTCAAAGTGGTCCACCCC 360
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Db 441 GGGAGCATGCTGCTTACGGTGGCTGGCGGACAGCATTTTCAAAGTGGTCCACCCC 500

QY 361 CACACGGGCTGAACACATCTCCACCCGGGGGGCTGGCATGCTCGACCCCTGTGG 420

Db 501 CACACGGGCTGAACACATCTCCACCCGGGGGGCTGGCATGCTCGACCCCTGTGG 560

QY 421 GGCCTGGTCACTCTGGAGAGTGTATCTTTTGTGGAGAACCATCTCTGGCGTCAAGAG 480

Db 561 GGCCTGGTCACTCTGGAGAGTGTATCTTTTGTGGAGAACCATCTCTGGCGTCAAGAG 620

QY 481 AGCGCGCTCTCTGGAGAGTGTATCTTTTGTGGAGAACCATCTCTGGCGTCAAGAG 540

Db 621 AGCGCGCTCTCTGGAGAGTGTATCTTTTGTGGAGAACCATCTCTGGCGTCAAGAG 680

QY 541 TTCCAGCTGGAGTCTTTATGCGCTTGGAGAGTGTATCTTTTGTGGAGAACCATCTCTGGCGTCAAGAG 600

Db 681 TTCCAGCTGGAGTCTTTATGCGCTTGGAGAGTGTATCTTTTGTGGAGAACCATCTCTGGCGTCAAGAG 740

QY 601 TGGAGCCTGAGCGGAGGAGGAGGAGTGGCCAGA 633

Db 741 TGGAGCCTGAGCGGAGGAGGAGGAGTGGCCAGA 773

RESULT 9

CD559650

LOCUS

DEFINITION

AGENCOURT_14497045 NIH_MGC_195 Homo sapiens CDNA clone

IMAGE:6971820 5', mRNA sequence.

CD559650

VERSION

CD559650.2 GI:38559022

EST.

SOURCE

Homosapiens (human)

ORGANISM

Homosapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 748)

NIH-MGC <http://mgc.nci.nih.gov/>.

National Institutes of Health, Mammalian Gene Collection (MGC)

Unpublished (1999)

On Jun 10, 2003 this sequence version replaced gi:31585718.

Contact: Daniela S. Gerhardt, Ph.D.

Office of Cancer Genomics

National Cancer Institute / NIH

Bldg. 31 Rm10A07 Bethesda, MD 20892

Email: cgapbs-remail.nih.gov

Tissue Procurement: Narayan Bhat

CDNA Library Preparation: Bhat Laboratory

CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

DNA Sequencing by: Agencourt Bioscience Corporation

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>

Plate: IRBK2 row: C column: 11

High quality sequence start: 11

High quality sequence stop: 745.

Location/Qualifiers

1..748

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="IMAGE:6971820"

/tissue_type="mixed"

/lab_host="DH5A (T1 phage-resistant)"

/clone_lib="NIH MGC 195"

/note="Vector: pDNR-Dual; Site_1: loxp-SalI; Site_2: loxp-HindIII; Clones from this library have been PCR-amplified using gene-specific primers to contain the complete open reading frame (based on known gene sequences available from NCBI's RefSeq). Template for PCR is cDNA derived from either pooled cytoplasmic polyA RNA from 30 cells lines or pooled total RNA from 10 different tissues (from BD Biosciences/Clontech and Washington University). PCR products are directionally cloned into the loxp sites

of the pDNR-Dual vector. Library constructed by Dr. Narayan Bhat, Earl Bere III and Hongling Liao (Gene Expression Laboratory, Research Technology Program, SAIC Frederick, NCI-Frederick, Frederick, MD 21702). For information on which gene each clone represents, please visit our anonymous ftp site at ftp://image.llnl.gov/image/rearrayed_plates/IRBK_presv.dat

a Note: this is a NIH_MGC Library."

ORIGIN

Query Match 57.8%; Score 600; DB 14; Length 748;
Best Local Similarity 99.2%; Pred. No. 2.5e-150;
Matches 603; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 ATGTACAAAGGCTGTGCTGCGCATCGAGAGGGGACACCATCTCCAGGTGATGCGCGCG 60

Db 141 ATGTACAAAGGCTGTGCTGCGCATCGAGAGGGGACACCATCTCCAGGTGATGCGCGCG 200

QY 61 CTGCTCATTTGGCCCTTTGTGCTGGCGCAGCTAGGCAATGGGGTCCCTGTGCTGTTTC 120

Db 201 CTGCTCATTTGGCCCTTTGTGCTGGCGCAGCTAGGCAATGGGGTCCCTGTGCTGTTTC 260

QY 121 TGCCTCCACATGAAGACCTGGAAGCCAGCAGCTGTTTACCTTTCAATTTGGCCGTGGCT 180

Db 261 TGCCTCCACATGAAGACCTGGAAGCCAGCAGCTGTTTACCTTTCAATTTGGCCGTGGCT 320

QY 181 GATTTCTCTCTATGATCTGCTGCTGCTTTTGGAGAGACTTATTTACCTCAGACGTAGACAC 240

Db 321 GATTTCTCTCTATGATCTGCTGCTGCTTTTGGAGAGACTTATTTACCTCAGACGTAGACAC 380

QY 241 TGGGGCTTTTGGGGACATTCCTCGCGAGTGGGGCTCTTCACGTTGGCCATGAACAGGGCC 300

Db 381 TGGGGCTTTTGGGGACATTCCTCGCGAGTGGGGCTCTTCACGTTGGCCATGAACAGGGCC 440

QY 301 GGGAGCATGCTGTTTCTTACGGTGGTGGCTGGGAGCAGCTATTTCAAAGTGGTCCACCCC 360

Db 441 GGGAGCATGCTGTTTCTTACGGTGGTGGCTGGGAGCAGCTATTTCAAAGTGGTCCACCCC 500

QY 361 CACGAGGGGTTGAACACATCTCTCCACCCGGGTGGGGCTGGGATCGTCTGCACCCCTGTGG 420

Db 501 CACGAGGGGTTGAACACATCTCTCCACCCGGGTGGGGCTGGGATCGTCTGCACCCCTGTGG 560

QY 421 GGCCTGGTCACTCTGGAGAGTGTATCTTTTGTGGAGAACCATCTCTTCGCGTCAAGAG 480

Db 561 GGCCTGGTCACTCTGGAGAGTGTATCTTTTGTGGAGAACCATCTCTTCGCGTCAAGAG 620

QY 481 AGCGCGCTCTCTGGAGAGTGTATCTTTTGTGGAGAACCATCTCTTCGCGTCAAGAG 540

Db 621 AGCGCGCTCTCTGGAGAGTGTATCTTTTGTGGAGAACCATCTCTTCGCGTCAAGAG 680

QY 541 TTCCAGCTGGAGTCTTTATGCGCTTGGAGAGTGTATTTTGTCTTCCAGATTGTT 600

Db 681 TTCCAGCTGGAGTCTTTATGCGCTTGGAGAGTGTATTTTGTCTTCCAGATTGTT 740

QY 601 TGGAGCCT 608

Db 741 TGGAGCCT 748

RESULT 10

CD559651

LOCUS

DEFINITION

AGENCOURT_14496981 NIH_MGC_195 Homo sapiens CDNA clone

IMAGE:6971819 5', mRNA sequence.

CD559651

VERSION

CD559651.2 GI:38559023

KEYWORDS

EST.

SOURCE

Homosapiens (human)

ORGANISM

Homosapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 743)

NIH-MGC <http://mgc.nci.nih.gov/>.

TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT On Jun 10, 2003 this sequence version replaced gi:31585719.
 Contact: Daniela S. Gerhard, Ph.D.
 Office of Cancer Genomics
 National Cancer Institute / NIH
 Bldg. 31 Rm10A07 Bethesda, MD 20892
 Email: cgapbs@mail.nih.gov
 Tissue Procurement: Narayan Bhat
 cDNA Library Preparation: Bhat Laboratory
 DNA Sequencing by: The I.M.A.G.E. Consortium (LNLN)
 Clone distribution: Agencourt Bioscience Corporation
 found through the I.M.A.G.E. Consortium/LNLN at:
 http://image.llnl.gov
 Plate: IRBK2 row: c column: 10
 High quality sequence stop: 728.

FEATURES
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 1..743
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clones="IMAGE:6971819"
 /tissue_type="mixed"
 /lab_host="DH5A (T1 phage-resistant)"
 /clone_lib="NIH MGC 195"
 /note="Vector: pDNR-Dual; Site 1: loxP-Sall; Site 2: loxP-HindIII; Clones from this library have been PCR-amplified using gene-specific primers to contain the complete open reading frame (based on known gene sequences available from NCBI's RefSeq). Template for PCR is cDNA derived from either pooled cytoplasmic polyA RNA from 30 cells lines or pooled total RNA from 10 different tissues (from BD Biosciences/Clontech and Washington University). PCR products are directionally cloned into the loxP sites of the pDNR-Dual vector. Library constructed by Dr. Narayan Bhat, Earl Bere III and Hongling Liao (Gene Expression Laboratory, Research Technology Program, SAIC Frederick, NCI-Frederick, Frederick, MD 21702). For information on which gene each clone represents, please visit our anonymous ftp site at ftp://image.llnl.gov/image/rearrayed_plates/IRBK.preSV.dat a Note: this is a NIH_MGC Library."

ORIGIN
 Query Match 57.0%; Score 591.4; DB 14; Length 743;
 Best Local Similarity 99.5%; Pred. No. 5.1e-146;
 Matches 614; Conservative 0; Mismatches 1; Indels 2; Gaps 2;

Qy 1 ATGTACAAAGGGTGTGTGCTGCGCATCGAGGGGACACCATCTCCAGGTGATGCCGCG 60
 Db 111 ATGTACAAAGGGTGTGTGCTGCGCATCGAGGGGACACCATCTCCAGGTGATGCCGCG 170
 Qy 61 CTGCTCATTTGGGCTTTGTGCTGGGCGCACTAGGCAATGGGGTGGCCCTGTGTGTTTC 120
 Db 171 CTGCTCATTTGGGCTTTGTGCTGGGCGCACTAGGCAATGGGGTGGCCCTGTGTGTTTC 230
 Qy 121 TGCTTCACATGAAGACCTGAAGCCAGCAGCTGTTTACCTTTCAATTGGCCGTGGCT 180
 Db 231 TGCTTCACATGAAGACCTGAAGCCAGCAGCTGTTTACCTTTCAATTGGCCGTGGCT 290
 Qy 181 GATTTCTCTTATGATCTGCTGCTGCTTTTGGACAGACTATTACTCAGACGTAGACAC 240
 Db 291 GATTTCTCTTATGATCTGCTGCTGCTTTTGGACAGACTATTACTCAGACGTAGACAC 350
 Qy 241 TGGGCTTTTGGGACATTCCTTGGCGAGTGGGGCTTTTCAGTTGGCCATGAACAGGGCC 300
 Db 351 TGGGCTTTTGGGACATTCCTTGGCGAGTGGGGCTTTTCAGTTGGCCATGAACAGGGCC 410
 Qy 301 GGGAGCATCGTGTTCCTTACGGTGTGTGCTCGGACAGCTATTTCAAGTGTCCACCC 360
 Db 411 GGGAGCATCGTGTTCCTTACGGTGTGTGCTCGGACAGCTATTTCAAGTGTTCACCC 470

Qy 361 CACCACGGGTGAACACTATCTCCACCGGGTGGCGGTGGCATGCTGTCACCCCTGTGG 420
 Db 471 CACRCCGGGTGAACACTATCTCCACCGGGTGGCGGTGGCATGCTGTCACCCCTGTGG 530
 Qy 421 GCCCTGGTTCATCTCTGGGAACAGTGTATCTTTTGTGGAGAACCATCTCTCTGCTGCAAGAG 480
 Db 531 GCCCTGGTTCATCTCTGGGAACAGTGTATCTTTTGTGGAGAACCATCTCTCTGCTGCAAGAG 590
 Qy 481 ACGGCCCTCTCTCTGGTGGAGAGCTTCATCATGAGTCGGCAATGGCTGCATGACATCATG 540
 Db 591 ACGGCCCTCTCTCTGGTGGAGAGCTTCATCATGAGTCGGCAATGGCTGCATGACATCATG 650
 Qy 541 TTCCAGCTGGAGTCTTTTATGCCCTCGGCATCATCTTATTTTGTCTCTCAAGATTGTT 600
 Db 651 TTCCAGCTGGAGTCTTTTATGCCCTCGGC-TCACTTATTTTGTCTCTC-AGATTGTT 708
 Qy 601 TGGAGCTGGAGCGGAG 617
 Db 709 TGGAGCTGGAGCGGAG 725

RESULT 11
LOCUS CD559652
DEFINITION AGENCOURT 14496854 NIH MGC 195 Homo sapiens cDNA clone IMAGE:6971817 5', mRNA sequence.
ACCESSION CD559652
VERSION CD559652.2 GI:38559024
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1 (bases 1 to 731)
AUTHORS NIH-MGC http://mgc.nci.nih.gov/
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT On Jun 10, 2003 this sequence version replaced gi:31585720.
 Contact: Daniela S. Gerhard, Ph.D.
 Office of Cancer Genomics
 National Cancer Institute / NIH
 Bldg. 31 Rm10A07 Bethesda, MD 20892
 Email: cgapbs@mail.nih.gov
 Tissue Procurement: Narayan Bhat
 cDNA Library Preparation: Bhat Laboratory
 DNA Sequencing by: The I.M.A.G.E. Consortium (LNLN)
 Clone distribution: Agencourt Bioscience Corporation
 found through the I.M.A.G.E. Consortium/LNLN at:
 http://image.llnl.gov
 Plate: IRBK2 row: c column: 08
 High quality sequence stop: 681.

FEATURES
 Location/Qualifiers
 1..731
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clones="IMAGE:6971817"
 /tissue_type="mixed"
 /lab_host="DH5A (T1 phage-resistant)"
 /clone_lib="NIH MGC 195"
 /note="Vector: pDNR-Dual; Site 1: loxP-Sall; Site 2: loxP-HindIII; Clones from this library have been PCR-amplified using gene-specific primers to contain the complete open reading frame (based on known gene sequences available from NCBI's RefSeq). Template for PCR is cDNA derived from either pooled cytoplasmic polyA RNA from 30 cells lines or pooled total RNA from 10 different tissues (from BD Biosciences/Clontech and Washington University). PCR products are directionally cloned into the loxP sites of the pDNR-Dual vector. Library constructed by Dr. Narayan Bhat, Earl Bere III and Hongling Liao (Gene Expression Laboratory, Research Technology Program, SAIC

Frederick, MCI-Frederick, Frederick, MD 21702). For information on which gene each clone represents, please visit our anonymous ftp site at ftp://image.llnl.gov/image/rearrayed_plates/IRAK.presv.dat a Note: this is a NIH_MGC Library."

ORIGIN

```

Query Match      56.3%; Score 584.4; DB 14; Length 731;
Best Local Similarity 97.0%; Pred. No. 3.9e-146;
Matches 606; Conservative 0; Mismatches 17; Indels 2; Gaps 1;

QY 1 ATGTACACGGGTGCTGCTGCGCATCGAGGGGACACCATCTCCAGGTGATGCGCGCG 60
Db 92 ATGTACACGGGTGCTGCTGCGCATCGAGGGGACACCATCTCCAGGTGATGCGCGCG 151
QY 61 CTGCTCATTTGGCTTGTGCTGGCGCACTAGGCAATGGGGTGGCCCTGTGTGTTTC 120
Db 152 CTGCTCATTTGGCTTGTGCTGGCGCACTAGGCAATGGGGTGGCCCTGTGTGTTTC 211
QY 121 TGGTTCACATGAACAGCTGGAAGCCAGCACTGTTTACCTTTCAATTTGGCGGTGGCT 180
Db 212 TGGTTCACATGAACAGCTGGAAGCCAGCACTGTTTACCTTTCAATTTGGCGGTGGCT 271
QY 181 GATTTTCCTTATCATCTGCTGCTTTTCGAGACAGCTATTAATCTCAGAGTAGACAC 240
Db 272 GATTTTCCTTATCATCTGCTGCTTTTCGAGACAGCTATTAATCTCAGAGTAGACAC 331
QY 241 TGGGCTTTTGGGGACATTTCCCTGCGGAGTGGGGCTTTCACGTTGGCCATGAACAGGGCC 300
Db 332 TGGGCTTTTGGGGACATTTCCCTGCGGAGTGGGGCTTTCACGTTGGCCATGAACAGGGCC 391
QY 301 GGGAGCATCTGTTCTTACCGTGTGCTGGGACAGGTATTTCAAAAGTGGTCCACCCC 360
Db 392 GGGAGCATCTGTTCTTACCGTGTGCTGGGACAGGTATTTCAAAAGTGGTCCACCCC 451
QY 361 CACCACGGGTGACACATCTTCCACCGGGTGGGGCTGGGATGCTGCAACCTGTGG 420
Db 452 CACCACGGGTGACACATCTTCCACCGGGTGGGGCTGGGATGCTGCAACCTGTGG 511
QY 421 GCCCTGCTCATCTTGGGAAAGTGTATCTTTTGTGGAGAACCACTCTCTGGTGCAGAG 480
Db 512 GCCCTGCTCATCTTGGGAAAGTGTATCTTTTGTGGAGAACCACTCTCTGGTGCAGAG 571
QY 481 ACGCCGCTCTCTGTGAGAGCTTTCATCATGAGTGGCCAAATGGCTGGCATGACATG 540
Db 572 ACGCCGCTCTCTGTGAGAGCTTTCATCATGAGTGGCCAAATGGCTGGCATGACATG 631
QY 541 TTCCAGCTGGAGTCTTTTATGCCCTCGGATCATCTTATTTTGTCTTCAAGATTGT 600
Db 632 TTCCAGCTGGAGTCTTTTATGCCCTCGGATCATCTTATTTT--GCTCTTCAGATTGT 689
QY 601 TGGAGCCTGAGGGGAGGCGAGCAGC 625
Db 690 TGGAGCCTGAGGGGAGGCGAGCAGCTGC 714

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RESULT 12
CD246157
LOCUS
DEFINITION
AGENCOURT 14127000 NIH_MGC_145 Homo sapiens cDNA clone
IMAGE:6912801 5', mRNA sequence.
CD246157
CD246157.1 GI:31006621
EST.
KEYWORDS
SOURCE
ORGANISM
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 (bases 1 to 1004)
AUTHORS
NIH-MGC <http://mgi.nhl.nih.gov/>
TITLE
National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL
Unpublished (1999)
COMMENT
Contact: Robert Strausberg, Ph.D.

Email: cgapbs-1@mail.nih.gov
Tissue Procurement: GPCR Consortium
cDNA Library Preparation: GPCR Consortium
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
Plate: IRB101 row: e column: 08
High quality sequence start: 106
High quality sequence stop: 677.
Location/Qualifiers
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/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:6912801"
/tissue_type="mixed"
/lab_host="DH10B"
/clone_lib="NIH_MGC_145"
/note="Vector: pcDNA3.1; Site 1: varies by clone; Site 2: varies by clone; ORFs were PCR-amplified and cloned into pcDNA3.1 by the GPCR Consortium. Cloning sites vary by clone and include the following: 5'-EcoRV-XbaI/XhoI-3', 5'-EcoRV-XbaI/NotI-3', EcoRV (TA cloned, non-directional). For information about which gene each clone represents, please visit our anonymous ftp site at ftp://image.llnl.gov/image/rearrayed_plates/IRBI.presv.dat a Note: this is a NIH_MGC Library."

FEATURES

source

ORIGIN

```

Query Match      53.8%; Score 558.6; DB 14; Length 1004;
Best Local Similarity 99.3%; Pred. No. 4.2e-139;
Matches 561; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 ATGTACACGGGTGCTGCTGCGCATCGAGGGGACACCATCTCCAGGTGATGCGCGCG 60
Db 131 ATGTACACGGGTGCTGCTGCGCATCGAGGGGACACCATCTCCAGGTGATGCGCGCG 190
QY 61 CTGCTCATTTGGCTTGTGCTGGCGGCACTAGGCAATGGGGTGGCCCTGTGTGTTTC 120
Db 191 CTGCTCATTTGGCTTGTGCTGGCGGCACTAGGCAATGGGGTGGCCCTGTGTGTTTC 250
QY 121 TGCTTCGACATGAGACCTGGAAGCCAGCACTGTTTACCTTTCAATTTGGCCGTGGCT 180
Db 251 TGCTTCGACATGAGACCTGGAAGCCAGCACTGTTTACCTTTCAATTTGGCCGTGGCT 310
QY 181 GATTTCTCTTATGATCTGCTGCTTTTCGAGCAGACTATTACCTCAGAGTAGACAC 240
Db 311 GATTTCTCTTATGATCTGCTGCTTTTCGAGCAGACTATTACCTCAGAGTAGACAC 370
QY 241 TGGGCTTTTGGGACATTTCCCTGCGGAGTGGGGCTCTTCAAGTGGCCATGAACAGGGCC 300
Db 371 TGGGCTTTTGGGACATTTCCCTGCGGAGTGGGGCTCTTCAAGTGGCCATGAACAGGGCC 430
QY 301 GGGAGCATCTGTTCTTCTTACGTTGGCTTGGGACAGGTATTTCAAAGTGGTCCACCCC 360
Db 431 GGGAGCATCTGTTCTTCTTACGTTGGCTTGGGACAGGTATTTCAAAGTGGTCCACCCC 490
QY 361 CACCACCGGGTGAACACTATCTCCACCGGGTGGGGCTGGCATCTGTCACACCTGTGG 420
Db 491 CACCACCGGGTGAACACTATCTCCACCGGGTGGGGCTGGCATCTGTCACACCTGTGG 550
QY 421 GCCTGTGTCATCTGGGAAACAGTGTATCTTTTGTGGAGAACCACTCTCTGCTGCAGAG 480
Db 551 GCCTGTGTCATCTGGGAAACAGTGTATCTTTTGTGGAGAACCACTCTCTGCTGCAGAG 610
QY 481 ACGGCGCTCTCTGTGAGAGCTTTCATCATGAGTGGCCAAATGGCTGGCATGACATCATG 540
Db 611 ACGGCGCTCTCTGTGAGAGCTTTCATCATGAGTGGCCAAATGGCTGGCATGACATCATG 670
QY 541 TTCCAGCTGGAGTCTTTTATGCCCTCGGATCATCTTATTTT--GCTCTTCAGATTGT 565

```


CC modulating cellular polypeptide expression or activity, useful as
 CC antagonists and agonists in disease treatment
 XX Sequence 346 AA;
 SQ

Query Match 100.0%; Score 1853; DB 4; Length 346;
 Best Local Similarity 100.0%; Pred. No. 5.9e-199;
 Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MYNGSCCRIEGDTISQVMPPLIIVAFVLGALNGVALCGCFHMTWKPSVYLFNLAVA 60
 DB 1 MYNGSCCRIEGDTISQVMPPLIIVAFVLGALNGVALCGCFHMTWKPSVYLFNLAVA 60
 QY 61 DFLMICLPFRDYLYLRHWAFGDIPCRVGLFTLANNRAGSIVELTVVAADRYFKVWHP 120
 DB 61 DFLMICLPFRDYLYLRHWAFGDIPCRVGLFTLANNRAGSIVELTVVAADRYFKVWHP 120
 QY 121 HAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180
 DB 121 HAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180
 QY 181 FOLEFMPILGIILFCSEFKIVWSLRRRQQLARQARMKKATRFIMVVAIVFITCYLPSVSAR 240
 DB 181 FOLEFMPILGIILFCSEFKIVWSLRRRQQLARQARMKKATRFIMVVAIVFITCYLPSVSAR 240
 QY 241 LYFLWTVPSACDPSVHGALHITLSTYMNWMLDPLVYFSSPSPKPKYKIKLSLKPX 300
 DB 241 LYFLWTVPSACDPSVHGALHITLSTYMNWMLDPLVYFSSPSPKPKYKIKLSLKPX 300
 QY 301 QFGHSKTQRPPEMPISNLGRSCISVANSFQSDGQWDPHIVEWH 346
 DB 301 QFGHSKTQRPPEMPISNLGRSCISVANSFQSDGQWDPHIVEWH 346

RESULT 3
 AAU06197
 ID AAU06197 standard; protein; 346 AA.
 XX
 AC AAU06197;
 XX
 DT 19-DEC-2001 (first entry)
 DE Novel human G protein-coupled receptor (GPCR) protein.
 KW Human; G-protein coupled receptor; GPCR; chemokine receptor; protease;
 KW hyperproliferative disorder; neurological disorder; psychiatric disease;
 KW inflammatory disorder; respiratory disorder.
 XX
 OS Homo sapiens.
 PN WO200173029-A2.
 XX
 PD 04-OCT-2001.
 XX
 PF 27-MAR-2001; 2001WO-US009522.
 XX
 PR 27-MAR-2000; 2000US-0192419P.
 PR 06-SEP-2000; 2000US-0230459P.
 PR 20-SEP-2000; 2000US-00666535.
 XX
 PA (PEKE) PE CORP NY.
 XX
 PI Ye J, Cravchik A, Di Francesco V, Beasley EX;
 XX
 XX WPI; 2001-616503/71.
 DR N-PSDB; AAS12581.
 XX
 PT Novel human G-protein coupled receptor proteins and nucleic acid
 PT molecules encoding the protein for use in developing human therapeutics
 PT and diagnostic compositions and for identifying modulators of the
 PT protein.
 XX
 PS Claim 1; Fig 1; 66pp; English.

XX The present invention relates to the isolation of a novel human G-protein
 CC coupled receptor (GPCR) which is related to the chemokine receptor
 CC subfamily. The cDNA and gene sequences encoding for GPCR are also given
 CC in the invention. The sequences of the invention are useful for
 CC diagnosing and treating diseases or conditions mediated by human
 CC proteases. Such diseases include hyperproliferative disorders (e.g.
 CC hyperplasia), neurological disorders (e.g. Parkinson's disease),
 CC psychiatric diseases (e.g. schizophrenia), inflammatory disorders (e.g.
 CC diabetes), and respiratory disorders (e.g. adult respiratory distress
 CC syndrome, ARDS). The GPCR protein is also useful for identifying a
 CC modulator of the expression of the protein. It also serves as a target
 CC for identifying agents for use in mammalian therapeutic applications,
 CC e.g. a human drug, particularly modulating a biological or pathological
 CC response in a cell or tissue that expresses the protein, in biological
 CC assays related to GPCRs that are related to members of the chemokine
 CC receptor subfamily, in drug screening assays and in competition binding
 CC assays. GPCR is also useful in diagnosing a disease or predisposition to
 CC a disease mediated by the peptide, in pharmacogenomic analysis. The
 CC polynucleotide sequences can also be used in gene therapy. The present
 CC sequence represents the novel human GPCR of the invention
 XX Sequence 346 AA;
 SQ

Query Match 100.0%; Score 1853; DB 4; Length 346;
 Best Local Similarity 100.0%; Pred. No. 5.9e-199;
 Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MYNGSCCRIEGDTISQVMPPLIIVAFVLGALNGVALCGCFHMTWKPSVYLFNLAVA 60
 DB 1 MYNGSCCRIEGDTISQVMPPLIIVAFVLGALNGVALCGCFHMTWKPSVYLFNLAVA 60
 QY 61 DFLMICLPFRDYLYLRHWAFGDIPCRVGLFTLANNRAGSIVELTVVAADRYFKVWHP 120
 DB 61 DFLMICLPFRDYLYLRHWAFGDIPCRVGLFTLANNRAGSIVELTVVAADRYFKVWHP 120
 QY 121 HAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180
 DB 121 HAVNTISTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180
 QY 181 FOLEFMPILGIILFCSEFKIVWSLRRRQQLARQARMKKATRFIMVVAIVFITCYLPSVSAR 240
 DB 181 FOLEFMPILGIILFCSEFKIVWSLRRRQQLARQARMKKATRFIMVVAIVFITCYLPSVSAR 240
 QY 241 LYFLWTVPSACDPSVHGALHITLSTYMNWMLDPLVYFSSPSPKPKYKIKLSLKPX 300
 DB 241 LYFLWTVPSACDPSVHGALHITLSTYMNWMLDPLVYFSSPSPKPKYKIKLSLKPX 300
 QY 301 QFGHSKTQRPPEMPISNLGRSCISVANSFQSDGQWDPHIVEWH 346
 DB 301 QFGHSKTQRPPEMPISNLGRSCISVANSFQSDGQWDPHIVEWH 346

RESULT 4
 AAU04373
 ID AAU04373 standard; protein; 346 AA.
 XX
 AC AAU04373;
 XX
 DT 23-OCT-2001 (first entry)
 DE Human G-protein coupled receptor, hRUP19.
 XX
 DE Human; G-protein coupled receptor; GPCR; hRUP19; agonist;
 KW inverse agonist; lung cancer.
 XX
 OS Homo sapiens.
 PN WO200136471-A2.
 XX
 PD 25-MAY-2001.
 XX
 PF 16-NOV-2000; 2000WO-US031509.

Wed Jul 7 12:07:43 2004

Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
QY	1 MYNGSCCRLEGDTISQVMPPLIIVAFVGLGNGVALCGFCFHMKTWKSTVYLEFLAVA 60
Db	1 MYNGSCCRLEGDTISQVMPPLIIVAFVGLGNGVALCGFCFHMKTWKSTVYLEFLAVA 60
QY	61 DFLLMICLPFRDYYLRRRHAFGDI PCRVGLFTLAMNRAGSIYELTVVAADRYFKVWHP 120
Db	61 DFLLMICLPFRDYYLRRRHAFGDI PCRVGLFTLAMNRAGSIYELTVVAADRYFKVWHP 120
QY	121 HEAVNTISTRVAAGIVCTLWALVILGTVYLLENHLCVQSTAVSCSFIMESANGWHDIM 180
Db	121 HEAVNTISTRVAAGIVCTLWALVILGTVYLLENHLCVQSTAVSCSFIMESANGWHDIM 180
QY	181 FOLEFFMPGLIILFCFSKIVWSLRRRQQLARQARMKATRFIMVVAIVFTICLPSVSAR 240
Db	181 FOLEFFMPGLIILFCFSKIVWSLRRRQQLARQARMKATRFIMVVAIVFTICLPSVSAR 240
QY	241 LYFLWTPSSACDPSVHGALHITLSFTYMNMLDPLVYFSSPFPYFNKIKICSLKPK 300
Db	241 LYFLWTPSSACDPSVHGALHITLSFTYMNMLDPLVYFSSPFPYFNKIKICSLKPK 300
QY	301 QPGHKTQRPPEMPIISNLGRSCISVANSPQSQSDGQWDPHIVEWH 346
Db	301 QPGHKTQRPPEMPIISNLGRSCISVANSPQSQSDGQWDPHIVEWH 346
RESULT 7	
AAE17077 standard; protein; 346 AA.	
ID	AAE17077;
AC	AAE17077;
DT	18-APR-2002 (first entry)
DE	Human G-protein coupled receptor (GPCRx14) protein.
KW	Human; G-protein coupled receptor; GPCRx14; cerebroprotective; vomiting;
KW	receptor-mediated disorder; therapy; urinary retention; allergy; obesity;
KW	osteoporosis; angina pectoris; restenosis; atherosclerosis; hypotension;
KW	anorexia; tumour; migraine; acute heart failure; ulcer; antinflammatory;
KW	stroke; hypertension; neuronal disorder; myocardial infarction; psychotic;
KW	depression; mental retardation; neurodegenerative disease; antibacterial;
KW	Alzheimer's disease; dementia; ischaemia; Parkinson's disease; antiviral;
KW	Huntington's disease; anxiety; antifungal; immunosuppressive; cytostatic;
KW	vulnerary; analgesic; anorectic; anabolic; diuretic; cardiant; nootropic;
KW	antiemetic; vasotropic; diabetes; cancer; tranquilizer; neuroleptic.
OS	Homo sapiens.
PH	Key
FT	Domain
FT	Location/Qualifiers
FT	17..40
FT	/note= "Transmembrane domain"
FT	52..70
FT	/note= "Transmembrane domain"
FT	90..111
FT	/note= "Transmembrane domain"
FT	132..152
FT	/note= "Transmembrane domain"
FT	185..203
FT	/note= "Transmembrane domain"
FT	221..237
FT	/note= "Transmembrane domain"
FT	258..281
FT	/note= "Transmembrane domain"
FT	/note= "Transmembrane domain"
FN	WO200198330-A2.
XX	
PD	27-DEC-2001.
XX	
PF	20-JUN-2001; 2001WO-BE000104.
XX	
XX	20-JUN-2000; 2000US-0212913P.
PR	

PR	11-JUL-2000; 2000US-0217494P.
PR	26-JAN-2001; 2001EP-00870015.
PR	12-FEB-2001; 2001EP-00870024.
XX	(EURO-) EUROSCREEN SA.
PA	Lannoy V, Breillon S, Dethoux M, Parmentier M, Govarts C;
PI	WPI; 2002-130789/17.
DR	N-PSDB; AAD27497.
XX	New G-protein coupled receptor, useful in the manufacture of medicaments
PT	for treating receptor mediated disorders e.g. acute heart failure and
PT	Alzheimer's disease.
XX	Disclosure; Page 29; 46pp; English.
PS	The present invention relates to a G-protein coupled receptor (GPCR) and
XX	nucleotide encoding it. GPCR are useful in the manufacture of a
CC	medicament for the prevention and/or treatment of receptor-mediated
CC	disorders e.g. viral infections, virus and bacterial diseases, diseases
CC	and disorders involving disturbances of cell migration, diseases or
CC	perturbations of immune system including cancers, development of tumours
CC	and tumour metastasis, inflammatory and neoplastic processes; bacterial
CC	and fungal infections, in wound and bone healing, dysfunction of
CC	regulatory growth functions; pains, diabetes, obesity, anorexia, bulimia,
CC	urinary retention, osteoporosis, angina pectoris, atherosclerosis,
CC	restenosis, diseases involving excessive or reduced proliferation or loss
CC	of smooth muscle cells, aneurysm, stroke, ischaemia, ulcers, allergies,
CC	benign prostatic hypertrophy, migraine, vomiting; blood circulating
CC	affections including acute heart failure, hypotension, hypertension and
CC	myocardial infarction; psychotic; neuronal disorders such as anxiety,
CC	schizophrenia, manic depression, depression, delirium, dementia, severe
CC	mental retardation; degenerative diseases; neurodegenerative diseases
CC	such as Alzheimer's disease, Parkinson's disease; and dyskinesias e.g.
CC	Huntington's disease or Gilles de la Tourette's syndrome and other
CC	related diseases. The present sequence is GPCRx14 protein
XX	
SQ	Sequence 346 AA;
Query Match 100.0%; Score 1853; DB 5; Length 346;	
Best Local Similarity 100.0%; Pred. No. 5.9e-199;	
Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
QY	1 MYNGSCCRLEGDTISQVMPPLIIVAFVGLGNGVALCGFCFHMKTWKSTVYLEFLAVA 60
Db	1 MYNGSCCRLEGDTISQVMPPLIIVAFVGLGNGVALCGFCFHMKTWKSTVYLEFLAVA 60
QY	61 DFLLMICLPFRDYYLRRRHAFGDI PCRVGLFTLAMNRAGSIYELTVVAADRYFKVWHP 120
Db	61 DFLLMICLPFRDYYLRRRHAFGDI PCRVGLFTLAMNRAGSIYELTVVAADRYFKVWHP 120
QY	121 HEAVNTISTRVAAGIVCTLWALVILGTVYLLENHLCVQSTAVSCSFIMESANGWHDIM 180
Db	121 HEAVNTISTRVAAGIVCTLWALVILGTVYLLENHLCVQSTAVSCSFIMESANGWHDIM 180
QY	181 FOLEFFMPGLIILFCFSKIVWSLRRRQQLARQARMKATRFIMVVAIVFTICLPSVSAR 240
Db	181 FOLEFFMPGLIILFCFSKIVWSLRRRQQLARQARMKATRFIMVVAIVFTICLPSVSAR 240
QY	241 LYFLWTPSSACDPSVHGALHITLSFTYMNMLDPLVYFSSPFPYFNKIKICSLKPK 300
Db	241 LYFLWTPSSACDPSVHGALHITLSFTYMNMLDPLVYFSSPFPYFNKIKICSLKPK 300
QY	301 QPGHKTQRPPEMPIISNLGRSCISVANSPQSQSDGQWDPHIVEWH 346
Db	301 QPGHKTQRPPEMPIISNLGRSCISVANSPQSQSDGQWDPHIVEWH 346
RESULT 8	
ABB08596	
ID	ABB08596 standard; protein; 346 AA.
XX	

AC ABB08596;
 XX 01-JUL-2002 (first entry)
 XX Human lipocyte-originated G protein-coupled receptor protein TGR13.
 DE Antiinflammatory; anorectic; obesity; inflammation; gene therapy; human;
 XX G protein-coupled receptor protein tgr13.
 XX Homo sapiens.
 XX WO200202767-A1.
 XX 10-JAN-2002.
 XX 02-JUL-2001; 2001WO-JP005711.
 XX 04-JUL-2000; 2000JP-00206860.
 XX 31-JUL-2000; 2000JP-00235274.
 XX (TAKE) TAKEDA CHEM IND LTD.
 XX PA Shibata S, Horikoshi K, Taniyama Y, Shintani Y, Miyajima N;
 PI WPI; 2002-164535/21.
 XX DR N-PSDB; ABA99236.
 XX PT New human lipocyte-originated G protein-coupled receptor proteins TGR13
 PT and encoding DNAs, for developing drugs to treat obesity and
 PT inflammations, including gene therapy.
 XX Claim 1; Fig 2; 101pp; Japanese.
 XX This invention relates to a human lipocyte-originated G protein-coupled
 CC receptor proteins TGR13, thought to be antiinflammatory and anorectic in
 CC their action. The proteins and encoded DNAs are for use in developing
 CC drugs to treat obesity and inflammation, including gene therapy. The
 CC present sequence represents the human lipocyte-originated G protein-
 CC coupled receptor protein TGR13
 XX Sequence 346 AA;
 SQ

Query Match 100.0%; Score 1853; DB 5; Length 346;
 Best Local Similarity 100.0%; Pred. No. 5.9e-199;
 Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MYNGSCCRIBGDTISQVMPPLIIVAFVLGALNGVALCGFCFHKMTWKBPSTVYLFNLAVA 60
 DB 1 MYNGSCCRIBGDTISQVMPPLIIVAFVLGALNGVALCGFCFHKMTWKBPSTVYLFNLAVA 60
 QY 61 DFLLMICLPRTDYLLRRRWATGDI PCRVGLFTLAMNRAGSI VFLTVVAADRYFKVHP 120
 DB 61 DFLLMICLPRTDYLLRRRWATGDI PCRVGLFTLAMNRAGSI VFLTVVAADRYFKVHP 120
 QY 121 HVAVNTISTRVAAGIVCTLMALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180
 DB 121 HVAVNTISTRVAAGIVCTLMALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180
 QY 181 FOLEPFMPGLIILFCFSKIVLSLRRRQQLARQARMKKATRFIMVAIVRTCYLPSVSAR 240
 DB 181 FOLEPFMPGLIILFCFSKIVLSLRRRQQLARQARMKKATRFIMVAIVRTCYLPSVSAR 240
 QY 241 LYFLWTVPSSACDPSVHGALHITLSTYTNKMSLDPLVYFSSPSPFKFYKLIKSLKPK 300
 DB 241 LYFLWTVPSSACDPSVHGALHITLSTYTNKMSLDPLVYFSSPSPFKFYKLIKSLKPK 300
 QY 301 QFGHKTQRPPEMPISNLGRSCISVANSFQSDGQWDPHIVEMH 346
 DB 301 QFGHKTQRPPEMPISNLGRSCISVANSFQSDGQWDPHIVEMH 346

RESULT 9
 ABG93786

ID ABG93786 standard; protein; 346 AA.
 XX AC ABG93786;
 XX DT 26-NOV-2002 (first entry)
 XX DE Human G protein-coupled receptor protein, nGPCR-11.
 XX KW Human; receptor; G protein-coupled receptor; GPCR; nGPCR; beGPCR;
 KW nG protein coupled receptor; communication; serpentine structure;
 KW seven transmembrane receptor; 7TM; mental disorder; diagnosis;
 KW genetic predisposition; brain; immune response; gene therapy;
 KW anxiety disorder; depression; bipolar disorder; schizophrenia;
 KW Huntington's disease; dyskinetia; manic depression; stroke;
 KW Parkinson's disease; Alzheimer's disease; diabetes; inflammation; wound;
 KW tranquiliser.
 XX OS Homo sapiens.
 XX PN WO200264789-A1.
 XX XX 22-AUG-2002.
 XX 14-FEB-2001; 2001WO-US004641.
 XX 14-FEB-2001; 2001WO-US004641.
 XX PA (PHAA) PHARMACIA & UPJOHN CO.
 XX PI Lind P, Parodi LA, Vogeli G, Wood LS;
 XX WPI; 2002-674879/72.
 XX DR N-PSDB; ABS70241.
 XX PT New nucleic acids and polypeptides of the nG protein-coupled receptor,
 PT useful for treating or diagnosing a mental disorder or a disorder
 PT affecting the brain, e.g. anxiety disorders, schizophrenia, stroke or
 PT Parkinson's disease.
 XX Example 1; Page 84; 244pp; English.
 XX The invention discloses an isolated human polypeptide, and encoding
 CC nucleic acid, for a G protein-coupled receptor (GPCR), particularly the
 CC nG protein coupled receptor-14 (nGPCR-14). GPCRs are vital in the
 CC communication between cells and their environment and are characterised
 CC by a serpentine structure that passes through the cell membrane seven
 CC times, hence the reason such receptors are sometimes called seven
 CC transmembrane receptors (7TM). The polynucleotides and polypeptides are
 CC useful for identifying an nGPCR allelic variant that correlates with a
 CC mental disorder, for isolating an antibody that binds to an epitope of
 CC the polypeptide, for identifying a compound that binds to a polypeptide or
 CC polynucleotide and/or modulates its biological activity, for screening a
 CC human subject to diagnose a disorder, or a genetic predisposition to a
 CC disorder, affecting the brain or a genetic disposition to the disorder,
 CC for identifying compounds useful for the treatment of a mental disorder,
 CC and for identifying a compound useful as a modulator of binding between
 CC nGPCR-14 and a binding partner of nGPCR-14. The polypeptide is also
 CC useful for inducing an immune response in a mammal. The nucleic acid or
 CC polypeptide is particularly useful, using gene therapy, for treating e.g.
 CC anxiety disorders, depression, bipolar disorder, schizophrenia,
 CC Huntington's disease, dyskinesias, manic depression, stroke, Parkinson's
 CC disease or Alzheimer's disease. The nucleic acid and polypeptide may also
 CC be used for treating diabetes, inflammation or wounds. The sequences
 CC presented in ABG93747-ABG93793, ABG93795 and ABG93796 are the nGPCR
 CC referred to as beGPCRs) proteins
 XX Sequence 346 AA;
 SQ

Query Match 100.0%; Score 1853; DB 5; Length 346;
 Best Local Similarity 100.0%; Pred. No. 5.9e-199;
 Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MYNGSCCRIBGDTISQVMPPLIIVAFVLGALNGVALCGFCFHKMTWKBPSTVYLFNLAVA 60

Db 1 MYNGSCCRLEGDTISQVMPPLIIVAFVLGALNGVALCGFCFHMKTWKSTVYLENLAVA 60
QY 61 DELLMICLPFRDYLYLRRHMAFGDIPCRVGLFTLANRAGSIVELTVVAADRYFKVHP 120
Db 61 DELLMICLPFRDYLYLRRHMAFGDIPCRVGLFTLANRAGSIVELTVVAADRYFKVHP 120
QY 121 HAVNTISTRVAAGIVCTLMALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180
Db 121 HAVNTISTRVAAGIVCTLMALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180
QY 181 FOLEFFMPLGIIILFCSEFKIVMSLRROQLARQARMKATRFIMVVAIVFITCYLPSVSAR 240
Db 181 FOLEFFMPLGIIILFCSEFKIVMSLRROQLARQARMKATRFIMVVAIVFITCYLPSVSAR 240
QY 241 LYFLMTVPSSACDPSVHGALHTLSTFYVNSMLDPLVYFSSPSPKFNKLIKICSLKPK 300
Db 241 LYFLMTVPSSACDPSVHGALHTLSTFYVNSMLDPLVYFSSPSPKFNKLIKICSLKPK 300
QY 301 QPGHKTQRPBEMPISNLGRSCISVANSFQSDGQWDPHIVEWH 346
Db 301 QPGHKTQRPBEMPISNLGRSCISVANSFQSDGQWDPHIVEWH 346

RESULT 10
ABP95599
ID ABP95599 standard; protein; 346 AA.

XX ABP95599;
XX AC
XX DT 06-MAR-2003 (first entry)
XX DE Human GPCR polypeptide SEQ ID NO 8.
XX KW Human; GPCR; G protein coupled receptor; signal transduction; olfactory;
XX KW drug development; gustatory; taste; fragrance; receptor.
XX OS Homo sapiens.

XX PN WO200216548-A2.
XX PD 28-FEB-2002.
XX PF 30-JUL-2001; 2001WO-IB0001446.
XX PR 04-AUG-2000; 2000JP-00237818.
XX PR 13-FEB-2001; 2001JP-00034434.
XX PA (NISC-) JAPAN SCI & TECHNOLOGY CORP.
XX PI Haga T, Takeda S, Mitaku S;
XX DR WEI; 2002-304118/34.
XX DR N-PSDB; ABZ42873.

XX Database global search for G protein-coupled receptors, proteins and
PT encoded genes for studying in vivo signal transduction mechanism and
PT identifying targets for drug development.
XX PS Claim 10; SEQ ID NO 8; 97pp + Sequence Listing; Japanese.

XX The invention relates to a method for screening G protein-coupled
CC receptor (GPCR) genes (ABZ42870-ABZ43216) and/or GPCR proteins (ABP95596-
CC ABP95942) by extracting open-reading frames containing 6-8 transmembrane
CC domains with 250-1000 amino acid residues to give a gene homologous with
CC a known GPCR gene. The receptor proteins and encoded genes are useful for
CC studying in vivo signal transduction mechanism and identifying targets
CC for drug development e.g. based on olfactory and gustatory receptors in
CC form of agonists and antagonists by screening intrinsic and extrinsic
CC ligands as bitter taste inhibitors, taste enhancers and fragrance
CC improvers. Note: The sequence data for this patent did not form part of
CC the printed specification, but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/published_pat_sequences

XX SQ Sequence 346 AA;
Query Match 100.0%; Score 1853; DB 5; Length 346;
Best Local Similarity 100.0%; Pred. No. 5.9e-199;
Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MYNGSCCRLEGDTISQVMPPLIIVAFVLGALNGVALCGFCFHMKTWKSTVYLENLAVA 60
Db 1 MYNGSCCRLEGDTISQVMPPLIIVAFVLGALNGVALCGFCFHMKTWKSTVYLENLAVA 60
QY 61 DELLMICLPFRDYLYLRRHMAFGDIPCRVGLFTLANRAGSIVELTVVAADRYFKVHP 120
Db 61 DELLMICLPFRDYLYLRRHMAFGDIPCRVGLFTLANRAGSIVELTVVAADRYFKVHP 120
QY 121 HAVNTISTRVAAGIVCTLMALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180
Db 121 HAVNTISTRVAAGIVCTLMALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIM 180
QY 181 FOLEFFMPLGIIILFCSEFKIVMSLRROQLARQARMKATRFIMVVAIVFITCYLPSVSAR 240
Db 181 FOLEFFMPLGIIILFCSEFKIVMSLRROQLARQARMKATRFIMVVAIVFITCYLPSVSAR 240
QY 241 LYFLMTVPSSACDPSVHGALHTLSTFYVNSMLDPLVYFSSPSPKFNKLIKICSLKPK 300
Db 241 LYFLMTVPSSACDPSVHGALHTLSTFYVNSMLDPLVYFSSPSPKFNKLIKICSLKPK 300
QY 301 QPGHKTQRPBEMPISNLGRSCISVANSFQSDGQWDPHIVEWH 346
Db 301 QPGHKTQRPBEMPISNLGRSCISVANSFQSDGQWDPHIVEWH 346

RESULT 11

AAO14788
ID AAO14788 standard; protein; 346 AA.

XX AAO14788;
XX DT 28-JUN-2002 (first entry)
XX DE Human purinergic-like G-protein coupled receptor (AXOR87).
XX KW Human; purinergic-like G-protein coupled receptor; AXOR87; immunity;
XX KW autoimmunity; inflammation; immunodeficiency; bacterial infection;
XX KW fungal infection; viral infection; protozoa infection; cancer; diabetes;
XX KW obesity; anorexia; bulimia; asthma; psoriasis; rheumatoid arthritis;
XX KW osteoarthritis; psychotic disorder; neurological disorder; vaccine;
XX KW chromosome 12q24.
XX OS Homo sapiens.
XX PN GB2365868-A.
XX PD 27-FEB-2002.
XX PF 25-MAY-2001; 2001GB-00012860.
XX PR 30-MAY-2000; 2000US-00580675.
XX PR 02-NOV-2000; 2000GB-00026839.
XX PA (SMIK) SMITHKLINE BEECHAM CORP.
XX PA (SMIK) SMITHKLINE BEECHAM PLC.
XX PA (GLAX) GLAXO GROUP LTD.
XX PI Ignar DM, Elshourbagy N, Gattu M, Shabon U;
XX DR WPI; 2002-364852/40.
XX DR N-PSDB; AAL42499.
XX PT New purinergic-like G-protein coupled receptor AXOR87 polypeptide and
PT polynucleotide, useful for treating diseases related to autoimmunity,
PT inflammation, immunodeficiency, or bacterial, fungal, viral and protozoal
PT infections.

XX Claim 2; Page 36; 47pp; English.

XX The invention comprises the amino acid and coding sequence of the human

CC purinergic-like G-protein coupled receptor AXOR87. The AXOR87 DNA and

CC protein sequences of the invention may be used for treating diseases

CC related to immunity, autoimmunity, inflammation, immunodeficiency, and

CC infections (i.e. bacterial, fungal, viral, protozoan). The AXOR87 DNA and

CC protein sequences are particularly useful for treating: cancers,

CC diabetes, obesity, anorexia, bulimia, asthma, psoriasis, rheumatoid

CC arthritis, osteoarthritis, as well as psychotic and neurological

CC disorders. The AXOR87 DNA and protein sequences may also be used as

CC vaccines. The present amino acid sequence (encoded by a sequence located

CC on chromosome 12q24) represents the human AXOR87 protein

XX

SQ Sequence 346 AA;

Query Match 100.0%; Score 1853; DB 5; Length 346;

Best Local Similarity 100.0%; Pred. No. 5.9e-199;

Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MYNGSCCRIEGDTISQVMPPLIVAFVLGALGNVALGCGCFHMKTKWKESTVYLENLAVA 60

Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

QY 1 MYNGSCCRIEGDTISQVMPPLIVAFVLGALGNVALGCGCFHMKTKWKESTVYLENLAVA 60

Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

QY 61 DFLMICLPFTDYLLRRHWAFGDIPCRVGLFTLAMNAGSIVELTVVAADRYFAKVHP 120

Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

QY 61 DFLMICLPFTDYLLRRHWAFGDIPCRVGLFTLAMNAGSIVELTVVAADRYFAKVHP 120

Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

QY 121 HAVNTISTRVAGIVCTLWALVILGTVLLNLHCVQETAVSCSFIMESANGWHDIM 180

Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

QY 121 HAVNTISTRVAGIVCTLWALVILGTVLLNLHCVQETAVSCSFIMESANGWHDIM 180

Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

QY 181 FQLEFFMPLGILFCSEKIVLSRRQQLARQAKKATRFIMVAIVFITCYLPSVSAR 240

Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

QY 181 FQLEFFMPLGILFCSEKIVLSRRQQLARQAKKATRFIMVAIVFITCYLPSVSAR 240

Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

QY 241 LYFTWTPSSACDPVSHGALHITLSFTYNSMLDPLVYFSSPPKFKYKIKICSLPK 300

Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

QY 241 LYFTWTPSSACDPVSHGALHITLSFTYNSMLDPLVYFSSPPKFKYKIKICSLPK 300

Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

QY 301 QPGHKTQRPPEMPISNLGRSCISVANSFQSDGQWDPHIVEWH 346

Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

QY 301 QPGHKTQRPPEMPISNLGRSCISVANSFQSDGQWDPHIVEWH 346

Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

RESULT 12

AAE24354

ID AAE24354 standard; protein; 346 AA.

XX

AC AAE24354;

XX

DT 04-OCT-2002 (first entry)

XX

DE Human G protein coupled receptor (GPCR), 57242 protein.

XX

KW Human; G protein coupled receptor; GPCR; 57242 protein; overweight;

XX metabolic disorder; lipogenesis; lipolysis; immunomodulator; heart;

KW bone disorder; osteoporosis; osteogenesis; bone resorption; cachexia;

XX hyperlipidaemia; anorexia; haematopoietic disorder; osteopathic;

KW autoimmune disorder; psoriasis; multiple sclerosis; brain disorder;

XX degenerative disease; Alzheimer's disease; Pick disease; diabetes;

KW adipocyte; hyperplastic growth; hypertrophic growth; gene therapy;

XX obesity; anorectic; receptor.

XX Homo sapiens.

XX

PH Location/Qualifiers

FT Peptide 1..37

FT /label= Signal_peptide

FT Domain 1..20

FT /note= "N-terminal non-transmembrane domain"

FT Modified-site 3..6

FT Cleavage-site

FT 9..10 /note= "N-glycosylation site"

FT 21..42 /note= "Cleavage site for mitochondrial preseq"

FT /note= "Transmembrane domain"

FT 32..278 /note= "GPCR domain"

FT 38..346 /note= "Human mature GPCR protein"

FT 43..51 /note= "Non-transmembrane domain"

FT 52..70 /note= "Transmembrane domain"

FT 71..89 /note= "Extracellular loop"

FT 77..80 /note= "Nuclear localisation signal"

FT 90..111 /note= "Transmembrane domain"

FT 112..130 /note= "Non-transmembrane domain"

FT 131..152 /note= "Transmembrane domain"

FT 153..184 /note= "Extracellular loop"

FT 185..201 /note= "Transmembrane domain"

FT 202..220 /note= "Non-transmembrane domain"

FT 204..220 /note= "Nuclear localisation signal"

FT 216..219 /note= "CAMP- and CGMP-dependent protein kinase phosphorylation site"

FT 221..245 /note= "Transmembrane domain"

FT 245..258 /note= "Extracellular loop"

FT 246..255 /note= "Non-transmembrane domain"

FT 259..280 /note= "Transmembrane domain"

FT 281..346 /note= "C-terminal cytoplasmic domain"

XX

PN WC200218579-A2.

XX

PD 07-MAR-2002.

XX

PP 29-AUG-2001; 2001WO-US026882.

XX

PR 29-AUG-2000; 2000US-0228409P.

XX

PA (MILL-) MILLENNTIUM PHARM INC.

XX

PI Glucksmann MA;

XX

XX MPI; 2002-479433/51.

DR N-PSDB; AAD39181.

XX

XX Human G protein coupled receptor nucleic acid and polypeptide molecules,

FT designated 57242, useful for diagnosing, preventing or treating aberrant

FT lipogenesis or aberrant lipolysis, obesity, diabetes or bone disorders

FT (e.g. osteoporosis).

XX

PS Claim 9; Page 112-113; 114pp; English.

XX

CC The invention relates to G protein coupled receptor (GPCR) family member,

CC 57242 and its corresponding nucleic acid sequence. The 57242 nucleic acid

CC and polypeptide are useful for diagnosing, preventing or treating a

CC subject having or at risk of developing a metabolic disorder,

CC particularly a disorder associated with aberrant lipogenesis or aberrant

CC lipolysis, obesity or diabetes. The 57242 DNA and protein are also useful

for treating a subject having bone disorder, where the disorder is osteoporosis or a disorder associated with aberrant osteogenesis or aberrant bone resorption. These diseases include obesity, diabetes, hyperlipidaemia, overweight, anorexia or cachexia. The 57242 DNA and protein are also useful for treating a subject having haematopoietic disorders, autoimmune disorders e.g. psoriasis and multiple sclerosis, brain disorders, degenerative diseases e.g. Alzheimer's disease and Pick disease and disorders involving heart. The 57242 nucleic acid and polypeptide are also useful for modulating adipocyte activity such as hyperplastic growth, hypertrophic growth or lipogenesis. The 57242 DNA is used in gene therapy. The present sequence is human 57242 protein

Sequence 346 AA;

Query Match 100.0%; Score 1853; DB 5; Length 346;
Best Local Similarity 100.0%; Pred. No. 5.9e-199;
Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MYNGSCCRIEGDTISQVMPPLLIIVAFVLGALNGVALCGFCFHMKTWKPSVYLFNLAVA 60
DB 1 MYNGSCCRIEGDTISQVMPPLLIIVAFVLGALNGVALCGFCFHMKTWKPSVYLFNLAVA 60
QY 61 DFLMICLPPTDYLLRRRHAFGDI PCRVGLFTLAMNRAGSIVELTVVAADRYFKVHP 120
DB 61 DFLMICLPPTDYLLRRRHAFGDI PCRVGLFTLAMNRAGSIVELTVVAADRYFKVHP 120
QY 121 HAVNTISTRVAAGIVCTLWALVILGTVYLLENHLCVQETAVSCSFIMESANGWHDIM 180
DB 121 HAVNTISTRVAAGIVCTLWALVILGTVYLLENHLCVQETAVSCSFIMESANGWHDIM 180
QY 181 FOLEFMPPLGILFCFSFKIWSLRRRQOLARQARMKATRFIMVAIVFITCYLPSVSAR 240
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RESULT 13

ABP81747
ID ABP81747 standard; protein; 346 AA.

AC ABP81747;

XX 04-MAR-2003 (first entry)

DE Human chemokine receptor FKSG80/GPR81 protein SEQ ID NO:668.

XX G protein-coupled receptor; GPCR; antigenic peptide; gene therapy;
KW G protein-coupled receptor modulator; antibody; immune-related disease;
KW growth-related disease; cell regeneration-related disease; AIDS; cancer;
KW immunological-related cell proliferative disease; autoimmune disease;
KW Alzheimer's disease; atherosclerosis; infection; osteoarthritis; allergy;
KW osteoporosis; cardiomyopathy; inflammation; Crohn's disease; diabetes;
KW graft versus host disease; Parkinson's disease; multiple sclerosis; pain;
KW psoriasis; anxiety; depression; schizophrenia; dementia; memory loss;
KW mental retardation; epilepsy; asthma; tuberculosis; obesity; nausea;
KW hypertension; hypotension; renal disorder; rheumatoid arthritis; trauma;
KW ulcer.

XX Homo sapiens.

OS WO200261087-A2.

XX 08-AUG-2002.

XX 19-DEC-2001; 2001WO-US050107.

XX

PR 19-DEC-2000; 2000US-0257144P.
XX (LIFE-) LIFESPAN BIOSCIENCES INC.
PA Burner GC, Roush CL, Brown JP;
PI WPI; 2003-046718/04.
DR N-PSDB; AB242592.
XX New isolated antigenic peptides e.g., for G protein-coupled receptors

PT (GPCR), useful for diagnosing and designing drugs for treating conditions
PT in which GPCRs are involved, e.g. AIDS, Alzheimer's disease, cancer or
PT autoimmune diseases.

PS Disclosure; Fig 1; 523pp; English.

XX The present invention describes antigenic peptides (I) comprising: (a)
CC any one of 1601 sequences (see ABP82019 to ABP83619) of 12-24 amino
CC acids. Also described: (1) an assay for the detection of a particular G
CC protein-coupled receptor (GPCR) or a candidate polypeptide in a sample;
CC and (2) an isolated antibody having high specificity and high affinity or
CC avidity for a particular GPCR. (I) can be used as GPCR modulators and in
CC gene therapy. The antigenic peptides for GPCRs are useful in detecting an
CC antibody against a particular GPCR, and in the production of specific
CC antibodies. The peptides and antibodies are also useful for detecting the
CC presence or absence of corresponding GPCRs. The antigenic peptides for
CC GPCRs and antibodies are useful for diagnosing and designing drugs for
CC treating immune-related diseases, growth-related diseases, cell
CC regeneration-related diseases, immunological-related cell proliferative
CC diseases, or autoimmune diseases, e.g. AIDS, Alzheimer's disease,
CC atherosclerosis, bacterial, fungal, protozoan or viral infections,
CC osteoarthritis, osteoporosis, cancer, cardiomyopathy, chronic and acute
CC inflammation, allergies, Crohn's disease, diabetes, graft versus host
CC disease, Parkinson's disease, multiple sclerosis, pain, psoriasis,
CC anxiety, depression, schizophrenia, dementia, mental retardation, memory
CC loss, epilepsy, asthma, tuberculosis, obesity, nausea, hypertension,
CC hypotension, renal disorders, rheumatoid arthritis, trauma, ulcers, or
CC any other disorder in which GPCRs are involved. The antibodies may be
CC used in immunoassays and immunodiagnosis. AB242523 to AB242969 encode
CC GPCR proteins given in ABP81675 to ABP82018, which are used in the
CC exemplification of the present invention

Sequence 346 AA;

Query Match 100.0%; Score 1853; DB 6; Length 346;
Best Local Similarity 100.0%; Pred. No. 5.9e-199;
Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 61 DFLMICLPPTDYLLRRRHAFGDI PCRVGLFTLAMNRAGSIVELTVVAADRYFKVHP 120
DB 61 DFLMICLPPTDYLLRRRHAFGDI PCRVGLFTLAMNRAGSIVELTVVAADRYFKVHP 120
QY 121 HAVNTISTRVAAGIVCTLWALVILGTVYLLENHLCVQETAVSCSFIMESANGWHDIM 180
DB 121 HAVNTISTRVAAGIVCTLWALVILGTVYLLENHLCVQETAVSCSFIMESANGWHDIM 180
QY 181 FOLEFMPPLGILFCFSFKIWSLRRRQOLARQARMKATRFIMVAIVFITCYLPSVSAR 240
DB 181 FOLEFMPPLGILFCFSFKIWSLRRRQOLARQARMKATRFIMVAIVFITCYLPSVSAR 240
QY 241 LYFLWTVPSACDPSVHGALHITLSFTYNNMLOPLVYFESSSPFPKYNKLCISLKP 300
DB 241 LYFLWTVPSACDPSVHGALHITLSFTYNNMLOPLVYFESSSPFPKYNKLCISLKP 300
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DB 301 QPGHSKTQRPPEMPISNLGRSCISVANSFQSDGQWDPHIVEWH 346

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Search completed: July 3, 2004, 08:42:48
Job time : 3254 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: July 3, 2004, 07:48:36 ; Search time 559 Seconds
(without alignments)
8958.010 Million cell updates/sec

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Perfect score: 1038
Sequence: 1 atgtacaacggctgctgctg.....ccacattttagtggacac 1038

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 3163042 seqs, 2412103800 residues
Total number of hits satisfying chosen parameters: 5325084

Minimum DB seq length: 0
Maximum DB seq length: 2000300000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA:
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2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:
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19: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1038	100.0	1038	15	US-10-240-842-1
2	1038	100.0	1038	15	US-10-076-260-1
3	1038	100.0	1038	17	US-10-332-032-2
4	1038	100.0	1041	9	US-09-862-274-1
5	1038	100.0	1041	10	US-09-886-041-1
6	1038	100.0	1041	10	US-09-782-374C-79
7	1038	100.0	1041	13	US-10-343-650A-7
8	1038	100.0	1041	15	US-10-188-149A-1
9	1038	100.0	1041	15	US-10-079-384-17
10	1038	100.0	1041	15	US-10-321-807-23
11	1038	100.0	1050	13	US-10-210-172-177
12	1038	100.0	1050	15	US-10-044-643-1
13	1038	100.0	1050	15	US-10-044-643-3
14	1038	100.0	1057	13	US-10-210-172-183

15	1038	100.0	1057	13	US-10-210-172-191	Sequence 191, App
16	1038	100.0	1060	13	US-10-210-172-187	Sequence 187, App
17	1038	100.0	1083	15	US-10-278-141-11	Sequence 11, Appl
18	1038	100.0	1083	16	US-10-296-081-11	Sequence 11, Appl
19	1038	100.0	1372	15	US-10-225-567A-667	Sequence 667, App
20	1038	100.0	1730	15	US-10-240-842-3	Sequence 3, Appl
21	1038	100.0	2331	15	US-10-188-149A-3	Sequence 3, Appl
22	1038	100.0	2345	15	US-10-201-481-6	Sequence 6, Appl
23	1038	100.0	3612	15	US-10-201-481-5	Sequence 5, Appl
24	1038	100.0	27893	15	US-10-017-161-757	Sequence 757, App
25	1036.4	99.8	1041	9	US-09-942-374-3	Sequence 3, Appl
26	1036.4	99.8	1041	17	US-10-665-956-3	Sequence 3, Appl
27	1036.4	99.8	1104	13	US-10-210-172-179	Sequence 179, App
28	1036.4	99.8	1194	9	US-09-942-374-1	Sequence 1, Appl
29	1036.4	99.8	1194	17	US-10-665-956-1	Sequence 7, Appl
30	1034.8	99.7	1041	15	US-10-094-417-7	Sequence 7, Appl
31	1034.8	99.7	1104	13	US-10-210-172-181	Sequence 181, App
32	1034.8	99.7	1104	15	US-10-044-643-4	Sequence 4, Appl
33	1015.8	97.9	3978	15	US-10-017-161-767	Sequence 767, App
34	1014	97.7	2580	15	US-10-092-135-1	Sequence 1, Appl
35	942.4	90.8	961	13	US-10-210-172-189	Sequence 189, App
36	942	90.8	961	13	US-10-210-172-185	Sequence 185, App
37	942	90.8	961	13	US-10-210-172-193	Sequence 193, App
38	898	85.5	888	10	US-09-782-974C-11	Sequence 11, Appl
39	724.4	69.8	1668	15	US-10-076-260-5	Sequence 5, Appl
40	723.4	69.7	742	13	US-10-210-172-195	Sequence 195, App
41	722.8	69.6	3251	15	US-10-076-260-3	Sequence 3, Appl
42	627.4	60.4	646	13	US-10-210-172-197	Sequence 197, App
43	627.4	60.4	646	13	US-10-210-172-203	Sequence 203, App
44	372.4	35.9	1174	10	US-09-930-334-1	Sequence 1, Appl
45	372.4	35.9	1174	13	US-10-619-141-1	Sequence 1, Appl

ALIGNMENTS

RESULT 1

US-10-240-842-1
; Sequence 1, Application US/10240842
; Publication No. US20030109673A1
; GENERAL INFORMATION:
; APPLICANT: Xiao, Yonghong
; TITLE OF INVENTION: REGULATION OF HUMAN HM74-LIKE G PROTEIN-COUPLED RECEPTOR
; FILE REFERENCE: 4974.09883
; CURRENT APPLICATION NUMBER: US/10/240,842
; PRIOR FILING DATE: 2002-10-04
; PRIOR APPLICATION NUMBER: 60/194,701
; PRIOR FILING DATE: 2000-04-05
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 1038
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-240-842-1

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Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 1038;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	ATGTACAACGGTCTGCTGCTGCGCATCGAGGGGACACCATCTCCAGGTGATCGCGCG	60	
Db	1	ATGTACAACGGTCTGCTGCTGCGCATCGAGGGGACACCATCTCCAGGTGATCGCGCG	60	
Qy	61	CTGCTCATTTGGTGGCTTTGTGCTGGCGGCACCTAGGCAATGGGCTGCCCTGTGTGTTTC	120	
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Qy	121	TGCTTCCACATGAAGACCTGGAAGCCGACACTGTTTACCTTTTCAATTCGCCGCGCT	180	
Db	121	TGCTTCCACATGAAGACCTGGAAGCCGACACTGTTTACCTTTTCAATTCGCCGCGCT	180	
Qy	181	GATTTCCCTCTTATGATCTGCTGCTTTTGGACAGACTATTACTCTAGACGTAGACAC	240	

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Db 181 GATTTCCTCTTATGATCTGCTGCTGCTTTTGGACAGACTATTACCTCAGAGTAGACAC 240
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Db 301 GGGAGCATGCTGTTCTTACGGTGGTGGCTGCGGACAGGTATTCAAAGTGTGCCACCCC 360
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RESULT 2

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US-10-076-260-1
; Sequence 1, Application US/10076260
; Publication No. US20030171541A1
; GENERAL INFORMATION:
; APPLICANT: Elliott, Steven G.
; APPLICANT: Rogers, No. US20030171541A1ma
; APPLICANT: Busse, Leigh Anne
; TITLE OF INVENTION: G-Protein Coupled Receptor Molecules and Uses Thereof
; FILE REFERENCE: 02-076
; CURRENT FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: 60/269,040
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; PRIOR FILING DATE: 2001-02-14
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 1038
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(1038)
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Best Local Similarity 100.0%; Pred. No. 0;
Matches 1038; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 3

US-10-332-032-2
; Sequence 2, Application US/10332032
; Publication No. US20040086940A1
; GENERAL INFORMATION:
; APPLICANT: Takeda Chemical Industries, Ltd.
; TITLE OF INVENTION: Novel G Protein-Coupled Receptor Protein and its DNA
; FILE REFERENCE: P2001-154PCT
; CURRENT APPLICATION NUMBER: US/10/332,032
; PRIOR FILING DATE: 2003-01-03
; PRIOR APPLICATION NUMBER: JP 2000-206860
; PRIOR FILING DATE: 2000-07-04
; PRIOR APPLICATION NUMBER: JP 2000-235274
; PRIOR FILING DATE: 2000-07-31
; NUMBER OF SEQ ID NOS: 5
; SEQ ID NO 2
; LENGTH: 1038
; TYPE: DNA
; ORGANISM: Human
US-10-332-032-2

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Best Local Similarity 100.0%; Pred. No. 0;
Matches 1038; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 ATGTACACGGGTCTGTGCTGCCGCTCGAGGGGACACCATCTCCAGGTGATCGCGCG 60
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Db 61 CTGCTCATGTGGCTTTGTGCTGGCGCACTAGGCAATGGGTGCGCCCTGTGTGTTTC 120
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Db 241 TGGGCTTTTGGGACATTTCCCTGCGAGTGGGCTCTTCAGTGGCCATGAACAGGCC 300
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Db 361 CACCAAGGGTGAACACTATCTCCACCGGGTGGCGGTGGCATCTGTCAACCTGTGG 420
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Db 601 TGGAGCTGAGGCGGAGCAGCAGCTGSCCAGACAGGCTCGGATGAAGAGGCGACCCGG 660
Qy 661 TTCATCATGTTGGTGGCAATTTGTTTCATCATGCTTACCTGCGCAGCGTGTCTGCTAGA 720
Db 661 TTCATCATGTTGGTGGCAATTTGTTTCATCATGCTTACCTGCGCAGCGTGTCTGCTAGA 720
Qy 721 CTCTATTTCTCTGAGCGGTGCCCTCGAGTGGCCCTGCGATCCCTCTGTCATGGGSCCCTG 780
Db 721 CTCTATTTCTCTGAGCGGTGCCCTCGAGTGGCCCTGCGATCCCTCTGTCATGGGSCCCTG 780
Qy 781 CACATAACCTCAGCTTTCACCTACATGAACAGCATGCTGGATCCCTGCTGTATTAATTTT 840
Db 781 CACATAACCTCAGCTTTCACCTACATGAACAGCATGCTGGATCCCTGCTGTATTAATTTT 840
Qy 841 TCAAGCCCTCTCTTCCAAATTTCTACHAAGCTCAAAATCTGCACTGTGAAACCCAG 900
Db 841 TCAAGCCCTCTCTTCCAAATTTCTACHAAGCTCAAAATCTGCACTGTGAAACCCAG 900
Qy 901 CAGCCAGGACACTCAAAAACAAAAGCCGGAAGAGATGCCAATTTGCAACCTCGGTGCG 960
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Qy 961 AGGAGTTCATGATGAGTGGCAATAGTTTCCAAAGCCAGTCTCATGGGCAATGGATCCC 1020
Db 961 AGGAGTTCATGATGAGTGGCAATAGTTTCCAAAGCCAGTCTCATGGGCAATGGATCCC 1020
Qy 1021 CACATTTTTCAGTGGCAC 1038
Db 1021 CACATTTTTCAGTGGCAC 1038

RESULT 4

US-09-862-274-1
; Sequence 1, Application US/09862274
; Patent No. US20020052022A1
; GENERAL INFORMATION:
; APPLICANT: ELSHOURBAGY, NABIL
; APPLICANT: GATTU, MAHANANDRESHWAR
; APPLICANT: SHABON, USMAN
; APPLICANT: IGNAF, DIANE MICHELE
; TITLE OF INVENTION: MOLECULAR CLONING OF A CHEMOKINE LIKE
; TITLE OF INVENTION: 7TMR (AXOR87)
; FILE REFERENCE: GP-70703-1
; CURRENT APPLICATION NUMBER: US/09/862,274
; CURRENT FILING DATE: 2001-05-22
; PRIOR APPLICATION NUMBER: US 09/580,675
; PRIOR FILING DATE: 2000-05-30
; PRIOR APPLICATION NUMBER: GB 0026839.1
; PRIOR FILING DATE: 2000-11-02
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 1041
; TYPE: DNA
; ORGANISM: HOMO SAPIENS
US-09-862-274-1

Query Match 100.0%; Score 1038; DB 9; Length 1041;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1038; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGTACACGGGTCTGTGCTGCCGCTCGAGGGGACACCATCTCCAGGTGATCGCGCG 60
Db 1 ATGTACACGGGTCTGTGCTGCCGCTCGAGGGGACACCATCTCCAGGTGATCGCGCG 60

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Db 1 ATGTACAAAGGGTCTGTCTGCGCATCGAGGGGGACACCATCTCCAGGTGATGCGCGG 60
Qy 61 CTGCTCATTTGGGCTTTGTGCTGGCGCACTAGGCAATGGGGTGGCCCTGTGTGTTTC 120
Db 61 CTGCTCATTTGGGCTTTGTGCTGGCGCACTAGGCAATGGGGTGGCCCTGTGTGTTTC 120
Qy 121 TGGTTCACATGAAGACCTGGAAGCCAGCACTGTTTACCTTTTCAATTTGGCCGTGGCT 180
Db 121 TGGTTCACATGAAGACCTGGAAGCCAGCACTGTTTACCTTTTCAATTTGGCCGTGGCT 180
Qy 181 GATTTCTCTTATGATCTGCTGCTTTTGGACAGACTATTAATCTCAGAGTGAACAC 240
Db 181 GATTTCTCTTATGATCTGCTGCTTTTGGACAGACTATTAATCTCAGAGTGAACAC 240
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Qy 361 CACCAAGCGGTGAACACTATCTCCACCGGCTGGCGGTGGCGTGGCATGTCGACCC 420
Db 361 CACCAAGCGGTGAACACTATCTCCACCGGCTGGCGGTGGCGTGGCATGTCGACCC 420
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Db 541 TTCCAGTGGAGTTCCTTTATGCCCCCTCGGCATCATCTTATTTTGTCTCTTCAAGATTGTT 600
Qy 601 TGGAGCCTGAGCGGAGGAGGAGCTGGCCAGACAGCTGGGATGAAGAGGCGACCCGG 660
Db 601 TGGAGCCTGAGCGGAGGAGGAGCTGGCCAGACAGCTGGGATGAAGAGGCGACCCGG 660
Qy 661 TTCCATCATGTTGGTGGCAATTTGTTTCATCATGCTGCTGCCAGCGTGTCTCTAGTA 720
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Qy 841 TCAAGCCCTCTTCTCCAAATTCACAAAGCTCAAAATCTGAGTCTGAAACCCAG 900
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Qy 961 AGAGTTGATCATGTTGGCAATAGTTTCAAAGCCAGTCTGATGGGCAATGGATCCC 1020
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Qy 1021 CACATTTGTTAGTGGCAC 1038
Db 1021 CACATTTGTTAGTGGCAC 1038
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; Sequence 1, Application US/09886041
; Publication NO. US20030059869A1
; GENERAL INFORMATION:
; APPLICANT: XIA, TAI-HE
; APPLICANT: NI, DONGHUI
; APPLICANT: EISHINGDELO, HAIFENG
; APPLICANT: ARDATI, ALI
; APPLICANT: MINNICH, ANNE
; APPLICANT: JUPPE, RAY
; TITLE OF INVENTION: NOVEL G PROTEIN-COUPLED RECEPTOR
; FILE REFERENCE: 41491
; CURRENT APPLICATION NUMBER: US/09/886, 041
; CURRENT FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: Patent in ver. 2.1
; SEQ ID NO 1
; LENGTH: 1041
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-886-041-1
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Best Local Similarity 100.0%; Pred. No. 0;
Matches 1038; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 61 CTGCTCATTTGGGCTTTGTGCTGGCGCACTAGGCAATGGGGTGGCCCTGTGTGTTTC 120
Db 61 CTGCTCATTTGGGCTTTGTGCTGGCGCACTAGGCAATGGGGTGGCCCTGTGTGTTTC 120
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Db 121 TGGTTCACATGAAGACCTGGAAGCCAGCACTGTTTACCTTTTCAATTTGGCCGTGGCT 180
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Qy 301 GGGAGCATCGTGTCTTACCGGTGGTGGTGGGACAGGTATTTCAAAGTGGTCCACCCC 360
Db 301 GGGAGCATCGTGTCTTACCGGTGGTGGTGGGACAGGTATTTCAAAGTGGTCCACCCC 360
Qy 361 CACCAAGCGGTGAACACTATCTCCACCGGCTGGCGGTGGCGTGGCATGTCGACCC 420
Db 361 CACCAAGCGGTGAACACTATCTCCACCGGCTGGCGGTGGCGTGGCATGTCGACCC 420
Qy 421 GCGCTGTCTCATGAGAGTTCATCATGAGTGGGCTGGGACAGGTATTTCAAAGTGGTCC 480
Db 421 GCGCTGTCTCATGAGAGTTCATCATGAGTGGGCTGGGACAGGTATTTCAAAGTGGTCC 480
Qy 481 ACSCCGTCTCTGTCGAGAGCTTTCATCATGAGTGGGCTGGGCAATGGCTGGCATGATG 540
Db 481 ACSCCGTCTCTGTCGAGAGCTTTCATCATGAGTGGGCTGGGCAATGGCTGGCATGATG 540
Qy 541 TTCCAGTGGAGTTCCTTTATGCCCCCTCGGCATCATCTTATTTTGTCTCTTCAAGATTGTT 600
Db 541 TTCCAGTGGAGTTCCTTTATGCCCCCTCGGCATCATCTTATTTTGTCTCTTCAAGATTGTT 600
Qy 601 TGGAGCCTGAGCGGAGGAGGAGCTGGCCAGACAGCTGGGATGAAGAGGCGACCCGG 660
Db 601 TGGAGCCTGAGCGGAGGAGGAGCTGGCCAGACAGCTGGGATGAAGAGGCGACCCGG 660
Qy 661 TTCCATCATGTTGGTGGCAATTTGTTTCATCATGCTGCTGCCAGCGTGTCTCTAGTA 720
Db 661 TTCCATCATGTTGGTGGCAATTTGTTTCATCATGCTGCTGCCAGCGTGTCTCTAGTA 720
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; Sequence 7, Application US/10343650A
; Publication No. US20040067499A1
; GENERAL INFORMATION:
; APPLICANT: HAGA, TATSUYA
; TITLE OF INVENTION: NOVEL G-PROTEIN COUPLED RECEPTOR
; FILE REFERENCE: 3:671-186347
; CURRENT APPLICATION NUMBER: US/10/343,650A
; CURRENT FILING DATE: 2003-07-21
; PRIOR APPLICATION NUMBER: JP 2000/237818
; PRIOR FILING DATE: 2000-06-04
; PRIOR APPLICATION NUMBER: JP 2001/34434
; PRIOR FILING DATE: 2001-02-13
; NUMBER OF SEQ ID NOS: 694
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 1041
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)..(1041)
US-10-343-650A-7

Query Match 100.0%; Score 1038; DB 13; Length 1041;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1038; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGTACACGGGTGCTGCTCCGATCGAGGGGAGACCAATCTCCAGGTGATGCCCGCG 60
DB 1 ATGTACACGGGTGCTGCTCCGATCGAGGGGAGACCAATCTCCAGGTGATGCCCGCG 60
QY 61 CTGCTCATTTGGCCCTTTGTGCTGGGCGACTAGGCGAATGGGTCGCCCTGTGTTTC 120
DB 61 CTGCTCATTTGGCCCTTTGTGCTGGGCGACTAGGCGAATGGGTCGCCCTGTGTTTC 120
QY 121 TGGTTCACATGAAGACCTTGAAGCCGACGACTGTTTACCTTTCAATTTGGCCGTGGCT 180
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QY 181 GATTTCCCTCTTATGATCTGCTCCGAGTGGGCTCTTTCACGTTGGCCATGAACGGCC 300
DB 181 GATTTCCCTCTTATGATCTGCTCCGAGTGGGCTCTTTCACGTTGGCCATGAACGGCC 300
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QY 361 CACACGGGTTGAACACTATCTCCACCGGGTGGGCTGGGCTGGGCTGGGCTGGGCTGGG 420
DB 361 CACACGGGTTGAACACTATCTCCACCGGGTGGGCTGGGCTGGGCTGGGCTGGGCTGGG 420
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DB 421 GGCCTGGTCACTCTGGGAACAGTATCTTTTGGTGGAAACCAATCTCTGGTGAAGAG 480
QY 481 ACGGCGCTCTCTGTGAGAGCTTCATGAGAGTGGGCGCAATGGCTGGGATGATCATG 540
DB 481 ACGGCGCTCTCTGTGAGAGCTTCATGAGAGTGGGCGCAATGGCTGGGATGATCATG 540
QY 541 TTCCAGCTGGAGTCTTTTATGCCCTCGGCATCATCTTATTTGGCTCTTCAAGATGTT 600
DB 541 TTCCAGCTGGAGTCTTTTATGCCCTCGGCATCATCTTATTTGGCTCTTCAAGATGTT 600
QY 601 TGGAGCTGAGGCGGGGAGGAGCTGGGCGACAGAGGCTCGGATGAAGAGGCGCCGG 660
DB 601 TGGAGCTGAGGCGGGGAGGAGCTGGGCGACAGAGGCTCGGATGAAGAGGCGCCGG 660
QY 661 TTTCATGCTGGTGGCAATTTGTTTCATCATGCTACATGCTACCTGCCAGGCTGCTGTA 720
DB 661 TTTCATGCTGGTGGCAATTTGTTTCATCATGCTACATGCTACCTGCCAGGCTGCTGTA 720

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Db 301 GGGAGCATCGTGTCTTACGTTGGTGGCTGGGACAGGTATTTCAAAGTGGTCCACCCC 360
QY 361 CACCAAGCGGTGAAACATATCTCCACCGGTGGGGCTGGCATCGTCTGCCACCGTGG 420
Db 361 CACCAAGCGGTGAAACATATCTCCACCGGTGGGGCTGGCATCGTCTGCCACCGTGG 420
QY 421 GCGCTGGTCACTCTGGGAAACAGTGTATCTTTTCTGGAGAACCATCTCTGCGTGCAGAG 480
Db 421 GCGCTGGTCACTCTGGGAAACAGTGTATCTTTTCTGGAGAACCATCTCTGCGTGCAGAG 480
QY 481 ACGGCGCTCTCTGGAGAGCTTCATCATGGAGTGGGCCAATGGCTGGCATGACATCATG 540
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QY 661 TTCCATCATGGTGGGCAATTTGTGTTTCATCATGCTACCTGCTGCTAGTGTCTGCTAGA 720
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QY 781 CACATAACCTTCAGCTTCACTACATGAACAGCATGCTGGATCCCTGGTGTATTTATTTT 840
Db 781 CACATAACCTTCAGCTTCACTACATGAACAGCATGCTGGATCCCTGGTGTATTTATTTT 840
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QY 901 CAGCCAGGACACTCAAAACACAAAGCGGAGAGATGCCAATTCGAACCTCGGTGCG 960
Db 901 CAGCCAGGACACTCAAAACACAAAGCGGAGAGATGCCAATTCGAACCTCGGTGCG 960
QY 961 AGGAGTGCATCAGTGTGGCAATAGTTTCCAAAGCCAGTCTGATGGGCAATGGGATCCC 1020
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QY 1021 CACATTCTTCAGTGGCAC 1038
Db 1021 CACATTCTTCAGTGGCAC 1038
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RESULT 9

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US-10-079-384-17
; Sequence 17, Application US/10079384
; Publication No. US2003010896A1
; GENERAL INFORMATION:
; APPLICANT: Communi, Didier
; TITLE OF INVENTION: COMPOSITIONS AND METHODS COMPRISING G-PROTEIN COUPLED RECEPTORS
; FILE REFERENCE: 9409/2132
; CURRENT APPLICATION NUMBER: US/10/079,384
; CURRENT FILING DATE: 2002-02-20
; PRIOR FILING DATE: 2001-06-20
; NUMBER OF SEQ ID NOS: 50
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 17
; LENGTH: 1041
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; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURES:
; NAME/KEY: CDS
; LOCATION: (1)..(1041)
; OTHER INFORMATION:
US-10-079-384-17
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Query Match 100.0%; Score 1038; DB 15; Length 1041;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1038; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 ATGTACACGGGTCTGCTGCTGGGCGCACTAGGCAATGGGGTCCCTCTGCTGGTTTC 60
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QY 121 TGTCTCCATGAAGACCTGGAAGCCAGCACTGTTTACCTTTCAATTGGCCGTGGCT 180
Db 121 TGTCTCCATGAAGACCTGGAAGCCAGCACTGTTTACCTTTCAATTGGCCGTGGCT 180
QY 181 GATTTCTCTCTTATCATCTGCTGCTGCTTTTCGAGACAGACTTATCTCAGAGGTAGACAC 240
Db 181 GATTTCTCTCTTATCATCTGCTGCTGCTTTTCGAGACAGACTTATCTCAGAGGTAGACAC 240
QY 241 TGGGCTTTTGGGCAATTTCCCTGCGGAGTGGGGCTCTTCACTGTTGGCCATGAACAGGGCC 300
Db 241 TGGGCTTTTGGGCAATTTCCCTGCGGAGTGGGGCTCTTCACTGTTGGCCATGAACAGGGCC 300
QY 301 GGGAGCATCGTGTCTTCTTACGTTGGTGGCTGGGACAGGTATTTCAAAGTGGTCCACCCC 360
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Db 361 CACCAAGCGGTGAAACATATCTCCACCGGTGGGGCTGGCATCGTCTGCCACCGTGG 420
QY 421 GCGCTGGTCACTCTGGGAAACAGTGTATCTTTTCTGGAGAACCATCTCTGCGTGCAGAG 480
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QY 601 TGGAGCTGGAGCGGAGCGACAGCTGGCCAGACAGGCTCGGATGAAGAGCGGACCCGG 660
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QY 781 CACATAACCTTCAGCTTCACTACATGAACAGCATGCTGGATCCCTGGTGTATTTATTTT 840
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Db 841 TCAAGCCCTCTCTTCCGAAATTTCTACAAAGCTCAAAATCTGCAAGTCTGAACCCCAAG 900
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Db 901 CAGCCAGGACACTCAAAACACAAAGCCGGAAGACAGATGCCAATTTTCGAACTCGGTGCG 960
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QY 1021 CACATTGTTGAGTGGCAC 1038
Db 1021 CACATTGTTGAGTGGCAC 1038
RESULT 10
US-10-321-807-23
; Sequence 23, Application US/10321807
; Publication No. US20030166148A1
; GENERAL INFORMATION:
; APPLICANT: Chen, Rupong
; APPLICANT: Dang, Huong T.
; APPLICANT: Lowitz, Kevin P.
; TITLE OF INVENTION: No. US20030166148A1-Endogenous, Constitutively Activated Human G
; FILE REFERENCE: AREN0086
; CURRENT APPLICATION NUMBER: US/10/321,807
; CURRENT FILING DATE: 2002-12-16
; PRIOR FILING DATE: 2000-11-16
; PRIOR APPLICATION NUMBER: 09/170,496
; PRIOR FILING DATE: 1999-11-17
; PRIOR APPLICATION NUMBER: PCT/US99/23938
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: 60/166,088
; PRIOR FILING DATE: 1999-11-17
; PRIOR APPLICATION NUMBER: 60/166,099
; PRIOR FILING DATE: 1999-11-17
; PRIOR APPLICATION NUMBER: 60/166,369
; PRIOR FILING DATE: 1999-11-17
; PRIOR APPLICATION NUMBER: 60/171,902
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: 60/171,901
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: 60/171,900
; PRIOR FILING DATE: 1999-12-23
; PRIOR APPLICATION NUMBER: 60/181,749
; PRIOR FILING DATE: 2000-02-11
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 23
; LENGTH: 1041
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-321-807-23

Query Match 100.0%; Score 1038; DB 15; Length 1041;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1038; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGTACAAACGGGTGCTGCTGCGCATCGAGGGGACACCATCTCCAGGTGATGCCGCG 60
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QY 121 TGCTTCACATGAAGACCTGGAAGCCAGCACTGTTTACCTTTCAATTTGGCGTGGCT 180
Db 121 TGCTTCACATGAAGACCTGGAAGCCAGCACTGTTTACCTTTCAATTTGGCGTGGCT 180
QY 181 GATTTCCTCTTATGATCTGCTTGGCTTTTCGGACAGACATTTACCTTCAGACCTAGACAC 240
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Db 361 CACCAACGGGTGAACACTATCTCCACCCGGGTGGGCTGGCATCGTCTGCACCTGTGG 420
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Db 481 ACGGCGCTCTCTCTGAGAGCTTTCATCATGAGTGGGCAATGGCTGGCATGACATCATG 540
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Db 781 CACATAACCTCAGCTTCACTTACATGAACAGCAGTGGATGCCATGCCATGCCATGCCAT 840
QY 841 TCAAGCCCTCTCTTTCCCAATTTTACAAAGCTCAAAATCTGCAAGTCTGAAACCCAG 900
Db 841 TCAAGCCCTCTCTTTCCCAATTTTACAAAGCTCAAAATCTGCAAGTCTGAAACCCAG 900
QY 901 CAGCCAGGACACTCAAAACACAAAGCCGGAAGAGATGCCAATTTCCAACTCGGTGCG 960
Db 901 CAGCCAGGACACTCAAAACACAAAGCCGGAAGAGATGCCAATTTCCAACTCGGTGCG 960
QY 961 AGGAGTTGCATCAGTGTGGCAATAGTTTCCAAAGCCAGTCTGATGGGCAATGGATCCC 1020
Db 961 AGGAGTTGCATCAGTGTGGCAATAGTTTCCAAAGCCAGTCTGATGGGCAATGGATCCC 1020
QY 1021 CACATTGTTGAGTGGCAC 1038
Db 1021 CACATTGTTGAGTGGCAC 1038

RESULT 11
US-10-210-172-177
; Sequence 177, Application US/10210172
; Publication No. US20040043928A1
; GENERAL INFORMATION:
; APPLICANT: Kenda, Ramesh
; APPLICANT: Miller, Charles
; APPLICANT: Patturajan, Meera
; APPLICANT: Pena, Carol
; APPLICANT: Rieger, Daniel
; APPLICANT: Shimkets, Richard
; APPLICANT: Zerhusen, Bryan
; APPLICANT: Li, Li
; APPLICANT: Ji, Weizhen
; APPLICANT: Padigaru, Muralidhara

APPLICANT: Casman, Stacie
APPLICANT: Voss, Edward
APPLICANT: Boldog, Ferenc
APPLICANT: Gorman, Linda
APPLICANT: Leite, Mario
APPLICANT: Vernet, Corine
APPLICANT: Anderson, David
APPLICANT: Guo, Xiaojia
APPLICANT: Zhong, Mei
APPLICANT: Gerlach, Valerie
APPLICANT: Hjalte, Tord
APPLICANT: Rastelli, Luca
APPLICANT: Spytek, Kimberly
APPLICANT: Edinger, Shlomit
APPLICANT: Ellerman, Karen
APPLICANT: Malyankar, Uriel
APPLICANT: MacDougall, John
APPLICANT: Stone, David
APPLICANT: Alsobrook II, John
APPLICANT: Lepley, Denise et al.

TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD

FILE REFERENCE: 21402-416 A

CURRENT APPLICATION NUMBER: US/10/210,172

PRIOR FILING DATE: 2001-08-01

PRIOR APPLICATION NUMBER: 60/309,501

PRIOR FILING DATE: 2001-08-02

PRIOR APPLICATION NUMBER: 60/323,994

PRIOR FILING DATE: 2001-09-21

PRIOR APPLICATION NUMBER: 60/373,814

PRIOR FILING DATE: 2002-04-19

PRIOR APPLICATION NUMBER: 60/310,291

PRIOR FILING DATE: 2001-08-03

PRIOR APPLICATION NUMBER: 60/310,951

PRIOR FILING DATE: 2001-08-08

PRIOR APPLICATION NUMBER: 60/310,544

PRIOR FILING DATE: 2001-08-07

PRIOR APPLICATION NUMBER: 60/311,292

PRIOR FILING DATE: 2001-08-09

PRIOR APPLICATION NUMBER: 60/311,979

PRIOR FILING DATE: 2001-08-13

PRIOR APPLICATION NUMBER: 60/313,201

PRIOR FILING DATE: 2001-08-17

PRIOR APPLICATION NUMBER: 60/312,892

PRIOR FILING DATE: 2001-08-16

Remaining Prior Application data removed - See File Wrapper or PALM.

NUMBER OF SEQ ID NOS: 327

SOFTWARE: CuraSeqList version 0.1

SEQ ID NO 177

LENGTH: 1050

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: CDS

LOCATION: (6)..(1043)

US-10-210-172-177

Query Match

Best Local Similarity 100.0%; Score 1038; DB 13; Length 1050;

Matches 1038; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 ATGTACACGGGTGTGTGCGGATCGAGGGGACACCATCTCCAGGTGATCGCGCG 60
6 ATGTACACGGGTGTGTGCGGATCGAGGGGACACCATCTCCAGGTGATCGCGCG 65
61 CTGCTCATTTGGCTTTGTCTGGCGCATAGGCATGGGTGGTCCCTGTGTGTTTC 120
66 CTGCTCATTTGGCTTTGTCTGGCGCATAGGCATGGGTGGTCCCTGTGTGTTTC 125
121 TGCTTCACATGAAGACCTGGAAGCCGACGACCTGTTTACCTTTTCAATTTGGCGGTGCT 180
126 TGCTTCACATGAAGACCTGGAAGCCGACGACCTGTTTACCTTTTCAATTTGGCGGTGCT 185
181 GATTTCCTCTTATGATCTGCTGCTGCTTTTGGGACAGACTATTACCTCAGACGTAGACAC 240

186 GATTTCCTCTTATGATCTGCTGCTGCTTTTGGGACAGACTATTACCTCAGACGTAGACAC 245
241 TGGGCTTTTGGGACATTTCCCTGCGGAGTGGGGCTCTTCACTGGCCATGAACAGGGCC 300
246 TGGGCTTTTGGGACATTTCCCTGCGGAGTGGGGCTCTTCACTGGCCATGAACAGGGCC 305
301 GGGAGCATCGTGTCTTACGGTGGTGGTGGGACAGGATTTTCAAAGTGGTCCACCCC 360
306 GGGAGCATCGTGTGTCTTACGGTGGTGGTGGGACAGGATTTTCAAAGTGGTCCACCCC 365
361 CACCACGCGGTGAACACTATCTCCACCCGAGTGGCGCTGGCATCGTTCGACCTGTGG 420
366 CACCACGCGGTGAACACTATCTCCACCCGAGTGGCGCTGGCATCGTTCGACCTGTGG 425
421 GCCTGTCTATCTCTGGGACAGGTGTATCTTTTGGGAGAACCATCTCTGGTGCAGAG 480
426 GCCTGTCTATCTCTGGGACAGGTGTATCTTTTGGGAGAACCATCTCTGGTGCAGAG 485
481 ACGGCGCTCTCTGTGAGAGCTTCATCATGGAGTGGGCCAATGGCTGGCATGACATG 540
486 ACGGCGCTCTCTGTGAGAGCTTCATCATGGAGTGGGCCAATGGCTGGCATGACATG 545
541 TTCAGCTGGAGTCTTTTATGCCCCCTGGCCATCATCTTATTTTGGCTCTTCAAGATTGT 600
546 TTCAGCTGGAGTCTTTTATGCCCCCTGGCCATCATCTTATTTTGGCTCTTCAAGATTGT 605
601 TGGAGCTTGAAGCGGAGGAGCAGCAGCTGGCCAGACAGGCTCGGATGAAGAGGCGCCG 660
606 TGGAGCTTGAAGCGGAGGAGCAGCAGCTGGCCAGACAGGCTCGGATGAAGAGGCGCCG 665
661 TTCATCATGCTGGTGGCAATTGTTTCACTCATGCTGCTGCCAGCGTGTCTGTGAGA 720
666 TTCATCATGCTGGTGGCAATTGTTTCACTCATGCTGCTGCCAGCGTGTCTGTGAGA 725
721 CTCATTTCTCTGAGCAGTGTGCTGAGTGGCTGCGATCCCTCTCTGCAATGGGCGCTG 780
726 CTCATTTCTCTGAGCAGTGTGCTGAGTGGCTGCGATCCCTCTCTGCAATGGGCGCTG 785
781 CACATAACCTCTCAGCTTCACTACATGAACAGCATCTGGATCCCTCTGTTATTTT 840
786 CACATAACCTCTCAGCTTCACTACATGAACAGCATCTGGATCCCTCTGTTATTTT 845
841 TCAGGCGCTCTCTTCCGAAATTTCAACACAGCTCAAAATCTGCAAGTCTGAAACCCAG 900
846 TCAGGCGCTCTCTTCCGAAATTTCAACACAGCTCAAAATCTGCAAGTCTGAAACCCAG 905
901 CAGCCAGGACACTCAAAACACAAAGGCGGAGAGATGCCAATTTGCACTCGGTGCGC 960
906 CAGCCAGGACACTCAAAACACAAAGGCGGAGAGATGCCAATTTGCACTCGGTGCGC 965
961 AGGAGTTGATCAGTGTGGCAATAGTTTCCAAAGCCAGTCTGATGGGCAATGGGATCCC 1020
966 AGGAGTTGATCAGTGTGGCAATAGTTTCCAAAGCCAGTCTGATGGGCAATGGGATCCC 1025
1021 CACATTGTTGAGTGGCAC 1038
1026 CACATTGTTGAGTGGCAC 1043

RESULT 12

US-10-044-643-1

; Sequence 1, Application US/10044643

; Publication No. US2003019535A1

; GENERAL INFORMATION:

; APPLICANT: Majumder, Kumud

; APPLICANT: Vernet, Corine

; APPLICANT: Casman, Stacie J

; APPLICANT: Wolenc, Adam R

; APPLICANT: Spaderna, Steven K

; APPLICANT: Padigaru, Muralidhara

; APPLICANT: Mishnu, Vishnu S

; APPLICANT: Tchernev, Velizar T

Query Match	100.0%;	Score 1038;	DB 15;	Length 1050;	
Best Local Similarity	100.0%;	Pred. No. 0;			
Matches 1038;	Conservative	0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	ATGTACAAACGGGTCGTCTCCGACATCGAGGGGACACCATCTCCAGGTGATGCCGCG	60		
Db	6	ATGTACAAACGGGTCGTCTCCGACATCGAGGGGACACCATCTCCAGGTGATGCCGCG	65		
QY	61	CTGCTCATTTGTGGCCTTTGTGCTGGGCGCACTAGGCAATGGGGTCGCCCTGTGTGGTTTC	120		
Db	66	CTGCTCATTTGTGGCCTTTGTGCTGGGCGCACTAGGCAATGGGGTCGCCCTGTGTGGTTTC	125		
QY	121	TGCTTCCACATGAAGACTCTGGAAGCCGACACTGTTTTACCTTTTCAATTTGGCCGTGGCT	180		
Db	126	TGCTTCCACATGAAGACTCTGGAAGCCGACACTGTTTTACCTTTTCAATTTGGCCGTGGCT	185		
QY	181	GAATTTCCCTCTTATGATCTGCCTTGCCCTTTTCGGACAGACATTAATCTCAGACGTAGACAC	240		
Db	186	GAATTTCCCTCTTATGATCTGCCTTTTCGGACAGACATTAATCTCAGACGTAGACAC	245		
QY	241	TGCGCTTTTGGGACATTCCTCGCAGTGGGGCTCTTCACTGTTGGGCAAGAACGAGGCC	300		

RESULT 13

APPLICANT: Anderson, David
APPLICANT: Guo, Xiaojia
APPLICANT: Zhong, Mei
APPLICANT: Gerlach, Valerie
APPLICANT: Hjalt, Tord
APPLICANT: Rastelli, Luca
APPLICANT: Spytek, Kimberly
APPLICANT: Edinger, Shlomit
APPLICANT: Ellerman, Karen
APPLICANT: Malyankar, Uriel
APPLICANT: MacDougall, John
APPLICANT: Stone, David
APPLICANT: Alsbrook II, John
APPLICANT: Lepley, Denise et al.
TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
FILE REFERENCE: 21402-416 A
CURRENT APPLICATION NUMBER: US/10/210,172
CURRENT FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: 60/309,501
PRIOR FILING DATE: 2001-08-02
PRIOR APPLICATION NUMBER: 60/323,994
PRIOR FILING DATE: 2001-09-21
PRIOR APPLICATION NUMBER: 60/373,814
PRIOR FILING DATE: 2002-04-19
PRIOR APPLICATION NUMBER: 60/310,291
PRIOR FILING DATE: 2001-08-03
PRIOR APPLICATION NUMBER: 60/310,951
PRIOR FILING DATE: 2001-08-08
PRIOR APPLICATION NUMBER: 60/310,544
PRIOR FILING DATE: 2001-08-07
PRIOR APPLICATION NUMBER: 60/311,292
PRIOR FILING DATE: 2001-08-09
PRIOR APPLICATION NUMBER: 60/311,979
PRIOR FILING DATE: 2001-08-13
PRIOR APPLICATION NUMBER: 60/313,201
PRIOR FILING DATE: 2001-08-17
PRIOR APPLICATION NUMBER: 60/312,892
PRIOR FILING DATE: 2001-08-16
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 327
SOFTWARE: CuraSeqlist version 0.1
SEQ ID NO 183
LENGTH: 1057
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (11)..(1048)
US-10-210-172-183

Query Match 100.0%; Score 1038; DB 13; Length 1057;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1038; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ATGTACACGGGTCTCTGCGCATCGAGGGGACACCATCTCCAGGTGATGCCGCG 60
DB 11 ATGTACACGGGTCTCTGCGCATCGAGGGGACACCATCTCCAGGTGATGCCGCG 70
QY 61 CTGCTCATTTGGCCCTTTGCTGGGCGCAGTAGGCACTGGGTGCGCCCTGTGGTTTC 120
DB 71 CTGCTCATTTGGCCCTTTGCTGGGCGCAGTAGGCACTGGGTGCGCCCTGTGGTTTC 130
QY 121 TGCTTCCACATGAAGACTCGAGCCAGCACTGTTTACCTTTTCAATTTGGCCGTGGCT 180
DB 131 TGCTTCCACATGAAGACTCGAGCCAGCACTGTTTACCTTTTCAATTTGGCCGTGGCT 190
QY 181 GATTTCCTTTATGATCTGCTGCTGCTTTTGGACAGACTATTACCTCAGACGTGAGCAC 240
DB 191 GATTTCCTTTATGATCTGCTGCTGCTTTTGGACAGACTATTACCTCAGACGTGAGCAC 250
QY 241 TGGGCTTTTGGGACATTCCTGCGGAGTGGGCTCTTCACTGGCCATGAACAGGGCC 300
DB 251 TGGGCTTTTGGGACATTCCTGCGGAGTGGGCTCTTCACTGGCCATGAACAGGGCC 310

QY 301 GGGAGCATCGTGTCTCTTACCGTGGTGGTGGGACAGGTATTTCAAAGTGGTCCACCCC 360
DB 311 GGGAGCATCGTGTGTCTCTTACCGTGGTGGTGGGACAGGTATTTCAAAGTGGTCCACCCC 370
QY 361 CACCAAGCGGTGAACACATCTATCTCCACCGGTGGCGGTGGCATCGTCTGACACCTGTGG 420
DB 371 CACCAAGCGGTGAACACATCTATCTCCACCGGTGGCGGTGGCATCGTCTGACACCTGTGG 430
QY 421 GCCTGTGTCATCTCGGGAAACAGTGTATCTTTTGTGGAGAACCATCTCTGCGTGGCAAGAG 480
DB 431 GCCTGTGTCATCTCGGGAAACAGTGTATCTTTTGTGGAGAACCATCTCTGCGTGGCAAGAG 490
QY 481 ACGCCGTCTCTCTGTGAGAGCTTCATCATGAGTGGCCAAATGGTGGCATGACATCATG 540
DB 491 ACGCCGTCTCTCTGTGAGAGCTTCATCATGAGTGGCCAAATGGTGGCATGACATCATG 550
QY 541 TTCCAGCTGGAGTCTCTTTATGCCCTCTGGCATCATCTTATTTTGTCTCTCAAGATTGTT 600
DB 551 TTCCAGCTGGAGTCTCTTTATGCCCTCTGGCATCATCTTATTTTGTCTCTCAAGATTGTT 610
QY 601 TGGAGCTGAGGCGGAGGAGCAGCTGGCCAGACAGGCTCGGATGAAGAGGCGGACCCGG 660
DB 611 TGGAGCTGAGGCGGAGGAGCAGCTGGCCAGACAGGCTCGGATGAAGAGGCGGACCCGG 670
QY 661 TTCAATCATGTGTGGCAATTGTGTTTCAATCATGTCTACCTGCGGAGGCTGTCTGCTAGA 720
DB 671 TTCAATCATGTGTGGCAATTGTGTTTCAATCATGTCTACCTGCGGAGGCTGTCTGCTAGA 730
QY 721 CTCTATTTCTCTGGAAGGCTCGGATGGCTCGGATGGCTCTGCTGCTGATGGGCTGCTG 780
DB 731 CTCTATTTCTCTGGAAGGCTCGGATGGCTCGGATGGCTCTGCTGCTGATGGGCTGCTG 790
QY 781 CAGATRAACCTCAGCTTCACCTACATGAAGAGCATGTGGATGCCCTGCTGCTGATTTATTT 840
DB 791 CAGATRAACCTCAGCTTCACCTACATGAAGAGCATGTGGATGCCCTGCTGCTGATTTATTT 850
QY 841 TCAAGCCCTCTCTTCCCAATTTCTACAAAGCTCAAAATCTGAGTCTGAAACCCCAAG 900
DB 851 TCAAGCCCTCTCTTCCCAATTTCTACAAAGCTCAAAATCTGAGTCTGAAACCCCAAG 910
QY 901 CAGCCAGGACACTCAAAAACACAAAGGCGGAGAGATGCCAATTTGGAACCTCGGTCGC 960
DB 911 CAGCCAGGACACTCAAAAACACAAAGGCGGAGAGATGCCAATTTGGAACCTCGGTCGC 970
QY 961 AGGAGTTGCATCAGTGTGGCAATAGTTTCCAAAGCCAGTCTGATGGGCAATGGATGCC 1020
DB 971 AGGAGTTGCATCAGTGTGGCAATAGTTTCCAAAGCCAGTCTGATGGGCAATGGATGCC 1030
QY 1021 CACATTGTTGAGTGGCAC 1038
DB 1031 CACATTGTTGAGTGGCAC 1048
RESULT 15
US-10-210-172-191
; Sequence 191, Application US/10210172
; Publication No. US20040043928A1
; GENERAL INFORMATION:
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Miller, Charles
; APPLICANT: Patturajan, Meera
; APPLICANT: Pena, Carol
; APPLICANT: Rieger, Daniel
; APPLICANT: Shimkets, Richard
; APPLICANT: Zerhusen, Bryan
; APPLICANT: Li, Li
; APPLICANT: Ji, Weizhen
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Casman, Stacie
; APPLICANT: Voss, Edward
; APPLICANT: Boldog, Ferenc
; APPLICANT: Gorman, Linda

```

1  APPLICANT: Leite, Mario
2  APPLICANT: Vernet, Corine
3  APPLICANT: Anderson, David
4  APPLICANT: Guo, Xiaojia
5  APPLICANT: Zhong, Mei
6  APPLICANT: Gerlach, Valerie
7  APPLICANT: Hjalt, Ford
8  APPLICANT: Rastelli, Luca
9  APPLICANT: Spytek, Kimberly
10 APPLICANT: Edinger, Shlomit
11 APPLICANT: Ellerman, Karen
12 APPLICANT: Malyankar, Uriel
13 APPLICANT: MacDougall, Joze
14 APPLICANT: Stone, David
15 APPLICANT: Alsbrook II, John
16 APPLICANT: Lepley, Denise et al.
17 TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD
18 FILE REFERENCE: 21402-416 A
19 CURRENT APPLICATION NUMBER: US/10/210,172
20 CURRENT FILING DATE: 2001-08-01
21 PRIOR APPLICATION NUMBER: 60/309,501
22 PRIOR FILING DATE: 2001-08-02
23 PRIOR APPLICATION NUMBER: 60/323,994
24 PRIOR FILING DATE: 2001-09-21
25 PRIOR APPLICATION NUMBER: 60/373,814
26 PRIOR FILING DATE: 2002-04-19
27 PRIOR APPLICATION NUMBER: 60/310,291
28 PRIOR FILING DATE: 2001-08-03
29 PRIOR APPLICATION NUMBER: 60/310,951
30 PRIOR FILING DATE: 2001-08-08
31 PRIOR APPLICATION NUMBER: 60/310,544
32 PRIOR FILING DATE: 2001-08-07
33 PRIOR APPLICATION NUMBER: 60/311,292
34 PRIOR FILING DATE: 2001-08-09
35 PRIOR APPLICATION NUMBER: 60/311,979
36 PRIOR FILING DATE: 2001-08-13
37 PRIOR APPLICATION NUMBER: 60/313,201
38 PRIOR FILING DATE: 2001-08-17
39 PRIOR APPLICATION NUMBER: 60/312,692
40 PRIOR FILING DATE: 2001-08-16
41 Remaining Prior Application data removed - See File Wrapper or PALM.
42 NUMBER OF SEQ ID NOS: 327
43 SOFTWARE: CuraseqList version 0.1
44 SEQ ID NO 191
45 LENGTH: 1057
46 TYPE: DNA
47 ORGANISM: Homo sapiens
48 FEATURE:
49 NAME/KEY: CDS
50 LOCATION: (2)..(1057)
51 US-10-210-172-191

```

251	Db	 TGGGCTTTTGGGACATATCCCTGCGGATGGGGCTCTTCACGTTGGCCATGAACAGG3CC	311
301	Qy	GGGAGCATCGTTTCCTTACGGTGGTGGCTGCGACAGGTATTTCAAGTGGTGCACCCC	360
311	Db	GGGAGCATCGTTTCCTTACGGTGGTGGCTGCGACAGGTATTTCAAGTGGTGCACCCC	370
361	Qy	CACCA CGGGTGAACACTATCTCCACCGGGGTGGCGTGCATCGTCTGCACCTGTGG	420
371	Db	CACCA CGGGTGAACACTATCTCCACCGGGTGGCGTGCATCGTCTGCACCTGTGG	430
421	Qy	GCCCTGTCTATCCNGGAA CAGTGTATCTTTTGTGGAGAACCACTCTCTCGGTGCAAG	480
431	Db	GCCCTGTCTATCCNGGAA CAGTGTATCTTTTGTGGAGAACCACTCTCTCGGTGCAAG	490
481	Qy	ACGGCGCTCTCTGAGAGGCTTCATCGAGTGGCGCAATGGCTGGCATGACATCATG	540
491	Db	ACGGCGCTCTCTGAGAGGCTTCATCGAGTGGCGCAATGGCTGGCATGACATCATG	550
541	Qy	TTCCAGCTGGAGTTCCTTTATGCCCTCGGCATCATCTTATTTTGTCTCCTTCAAGATTGTT	600
551	Db	TTCCAGCTGGAGTTCCTTTATGCCCTCGGCATCATCTTATTTTGTCTCCTTCAAGATTGTT	610
601	Qy	TGGAGCTGAGGCGGAGGCGAGCTGGCCAGACAGGCTCGGATGGAAGAGGCGACCCGG	660
611	Db	TGGAGCTGAGGCGGAGGCGAGCTGGCCAGACAGGCTCGGATGGAAGAGGCGACCCGG	670
661	Qy	TTCCATCATGTGTTGGCAATTTGTGTCATCACATGCTACTGCCCGCGGTGCTGTCTAGA	720
671	Db	TTCCATCATGTGTTGGCAATTTGTGTCATCACATGCTACTGCCCGCGGTGCTGTCTAGA	730
721	Qy	CTCTATTTCTCTGGAGCGTGCCTCGAGTGGCCTCGCATCCCTCTGTCCATGGGGCCCTG	780
731	Db	CTCTATTTCTCTGGAGCGTGCCTCGAGTGGCCTCGCATCCCTCTGTCCATGGGGCCCTG	790
781	Qy	CACATAACCTCAGCTTTCACCTACATGAACAGCATGCTGGATCCCTGGTGTATTTATTTT	840
791	Db	CACATAACCTCAGCTTTCACCTACATGAACAGCATGCTGGATCCCTGGTGTATTTATTTT	850
841	Qy	TCAGCCCCCTCTTTCCTCAAAATCTACACAGCTCAAAATCTGTCAGTCTGAAACCCCAAG	900
851	Db	TCAGCCCCCTCTTTCCTCAAAATCTACACAGCTCAAAATCTGTCAGTCTGAAACCCCAAG	910
901	Qy	CAGCCAGGACACTCAAAAACACAPAGGCCGAPAGAGATGCCAATTTTCGAACCTCGGTGCG	960
911	Db	CAGCCAGGACACTCAAAAACACAPAGGCCGAPAGAGATGCCAATTTTCGAACCTCGGTGCG	970
961	Qy	AGGAGTTGGCATCAGTGTGGCAATAGTTTCCAAAGCCAGTCTGTATGGGCAATGGGATCCC	1020
971	Db	AGGAGTTGGCATCAGTGTGGCAATAGTTTCCAAAGCCAGTCTGTATGGGCAATGGGATCCC	1030
1021	Qy	CACATTGTTGAGTGGCAC	1038
1031	Db	CACATTGTTGAGTGGCAC	1048

Search completed: July 3, 2004, 10:07:49
Job time : 565 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: June 30, 2004, 17:15:22 ; Search time 17 Seconds
(without alignments)
1059.781 Million cell updates/sec

Title: US-10-076-260-2

Perfect score: 1853

Sequence: 1 MYNGSCCRIGDTISQWPF.....ANSFQSQSDGQWDPHVEWH 346

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 141681 seqs, 52070155 residues

Total number of hits satisfying chosen parameters: 141681

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : SwissProt_42.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1853	100.0	346	1	GP81_HUMAN
2	1483	80.0	343	1	GP81_MOUSE
3	880.5	47.5	387	1	HM74_HUMAN
4	448.5	24.2	319	1	GP31_HUMAN
5	371.5	20.0	309	1	CLT2_MOUSE
6	366.5	19.8	346	1	CLT2_HUMAN
7	364	19.6	362	1	P2YR_CHICK
8	364	19.6	362	1	P2YR_MELGA
9	362.5	19.6	373	1	P2YR_BOVIN
10	362	19.5	345	1	CLT2_PIG
11	358.5	19.3	373	1	P2YR_RAT
12	356.5	19.2	373	1	P2YR_CAVPO
13	355.5	19.2	309	1	CLT2_RAT
14	354	19.1	373	1	P2YR_HUMAN
15	351.5	19.0	373	1	P2YR_MOUSE
16	346.5	18.7	370	1	P2Y9_HUMAN
17	340	18.3	344	1	P2Y5_MOUSE
18	339	18.3	308	1	P2Y5_CHICK
19	336	18.1	367	1	GP17_HUMAN
20	327	17.6	309	1	GP35_MOUSE
21	325	17.5	344	1	P2Y5_HUMAN
22	320	17.3	373	1	P2Y2_MOUSE
23	316.5	17.1	374	1	P2Y2_RAT
24	310.5	16.8	420	1	PARI_XENLA
25	309.5	16.7	363	1	SSR5_RAT
26	308.5	16.6	307	1	GP35_MOUSE
27	308	16.6	340	1	CLT1_PIG
28	307	16.6	391	1	SSR1_MOUSE
29	305.5	16.5	391	1	SSR1_HUMAN
30	305.5	16.5	391	1	SSR1_RAT
31	305	16.5	337	1	CLT1_HUMAN
32	305	16.5	372	1	GP92_HUMAN
33	305	16.5	377	1	P2Y2_HUMAN

34 304.5 16.4 359 1 AG2R_BOVIN
35 302.5 16.3 369 1 SSR2_HUMAN
36 302 16.3 391 1 BRB2_HUMAN
37 302 16.3 399 1 PAR2_MOUSE
38 300.5 16.2 369 1 SSR2_MOUSE
39 300.5 16.2 369 1 SSR2_RAT
40 300 16.2 328 1 P2Y6_RAT
41 300 16.2 384 1 SSR4_RAT
42 300 16.2 428 1 SSR3_MOUSE
43 299.5 16.2 369 1 SSR2_PIG
44 299 16.1 388 1 SSR4_HUMAN
45 299 16.1 397 1 PAR2_RAT

P25104 bos taurus
P30874 homo sapien
P30411 homo sapien
P55086 mus musculus
P30875 mus musculus
P30680 rattus norv
Q63371 rattus norv
P30937 rattus norv
P30935 mus musculus
P34994 sus scrofa
P31391 homo sapien
Q63645 rattus norv

ALIGNMENTS

RESULT 1
GP81_HUMAN
ID GP81_HUMAN STANDARD; PRT; 346 AA.
AC Q9BXCO;
DT 10-OCT-2003 (Rel. 42, Last Created)
DT 10-OCT-2003 (Rel. 42, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Probable G protein-coupled receptor GPR81.
GN GPR81 OR PKSG80.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
[1]
RP SEQUENCE FROM N.A., AND TISSUE SPECIFICITY.
RX MEDLINE=21458557; PubMed=11574155;
RA Lee D.K., Nguyen T., Lynch K.R., Cheng R., Vanti W.B., Arkhiko O.,
RA Lewis T., Evans J.F., George S.R., O'Dowd B.F.;
RT "Discovery and mapping of ten novel G protein-coupled receptor
genes.";
RL Gene 275:83-91(2001).
[2]
RP SEQUENCE FROM N.A.
RX MEDLINE=22040266; PubMed=12044878;
RA Takeda S., Kadowaki S., Haga T., Takaesu H., Mitaku S.;
RT "Identification of G protein-coupled receptor genes from the human
genome sequence.";
RL FEBS Lett. 520:97-101(2002).
[3]
RP SEQUENCE FROM N.A.
RA Wang Y.-G., Gong L.;
RT "Molecular cloning of PKSG80, a novel gene encoding a putative
chemokine receptor.";
RL Submitted (FEB-2001) to the EMBL/GenBank/DBJ databases.
[4]
RP SEQUENCE FROM N.A.
RA Suwa M., Sato T., Okouchi I., Arita M., Futami K., Matsumoto S.,
RA Tsutsumi S., Aburatani H., Asai K., Akiyama Y.;
RT "Genome-wide discovery and analysis of human seven transmembrane helix
receptor genes.";
RL Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.
CC -!- FUNCTION: Orphan receptor.
CC -!- SUBCELLULAR LOCATION: Expressed in pituitary tissue. Not detected in
CC frontal, temporal and occipital lobes of the cortex, basal
CC forebrain, caudate nucleus, nucleus accumbens, and hippocampus.
CC -!- SIMILARITY: Belongs to family 1 of G-protein coupled receptors.

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DR EMBL; AF411110; AAL26481.1; -
DR EMBL; AB083631; BAB89344.1; -
DR EMBL; AF345568; AAK29071.1; -
DR EMBL; AB065866; BAC06084.1; -
DR GenBank; HGNC:4532; GPR81.
DR MIM; 606923; -
DR InterPro; IPR000276; GPCR_Rhodopsn.
DR Pfam; PF00001; 7tm.1; 1.
DR PRINTS; PR00237; GPCRHOODPSN
DR PROSITE; PS00237; G_PROTEIN_RECEP_F1_1; 1.
DR PROSITE; PS00262; G_PROTEIN_RECEP_F1_2; 1.
KW G-protein coupled receptor; Transmembrane; Glycoprotein.
FT DOMAIN 1 21 EXTRACELLULAR (POTENTIAL).
FT TRANSMEM 22 42 1 (POTENTIAL).
FT DOMAIN 43 49 CYTOPLASMIC (POTENTIAL).
FT TRANSMEM 50 70 2 (POTENTIAL).
FT DOMAIN 71 89 EXTRACELLULAR (POTENTIAL).
FT TRANSMEM 90 110 3 (POTENTIAL).
FT DOMAIN 111 130 CYTOPLASMIC (POTENTIAL).
FT TRANSMEM 131 151 4 (POTENTIAL).
FT DOMAIN 152 182 EXTRACELLULAR (POTENTIAL).
FT TRANSMEM 183 203 5 (POTENTIAL).
FT DOMAIN 204 220 CYTOPLASMIC (POTENTIAL).
FT TRANSMEM 221 241 6 (POTENTIAL).
FT DOMAIN 242 261 EXTRACELLULAR (POTENTIAL).
FT TRANSMEM 262 281 7 (POTENTIAL).
FT DOMAIN 282 346 CYTOPLASMIC (POTENTIAL).
FT DISULFID 88 165 BY SIMILARITY.
FT CARBOHYD 3 3 N-LINKED (GLCNAC...) (POTENTIAL).
SQ SEQUENCE 346 AA; 39295 MW; EDD114EEB3A47A5 CRC64;

Query Match 100.0%; Score 1853; DB 1; Length 346;
Best Local Similarity 100.0%; Pred. No. 1e-125;
Matches 346; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MYNGSCRIEDTTSQVMPPLIIVAFVLGNGVALGCGCFHMKTKPSTVILFNLA 60
Db 1 MYNGSCRIEDTTSQVMPPLIIVAFVLGNGVALGCGCFHMKTKPSTVILFNLA 60
QY 61 DELLMICLPRTDYLRHRRHAFGDIICRVGLFLAMNAGSIYVLVAAADRYKVVHP 120
Db 61 DELLMICLPRTDYLRHRRHAFGDIICRVGLFLAMNAGSIYVLVAAADRYKVVHP 120
QY 121 HHAVNTISTRVAAGIVCTLMAVLVGLVYLLLENHLCVQETAVSCSFIMESANGWDIM 180
Db 121 HHAVNTISTRVAAGIVCTLMAVLVGLVYLLLENHLCVQETAVSCSFIMESANGWDIM 180
QY 181 FOLEFFMPLGIILFCSPKIYVSLRRRQOLARQARMKKATRFIMVVAIVFITCYLPVSAR 240
Db 181 FOLEFFMPLGIILFCSPKIYVSLRRRQOLARQARMKKATRFIMVVAIVFITCYLPVSAR 240
QY 241 LYFLWTPSSACDPVSHGALHITLSFTYMSMLDPLVYFSSPSPFPKYNKIKCSLKPK 300
Db 241 LYFLWTPSSACDPVSHGALHITLSFTYMSMLDPLVYFSSPSPFPKYNKIKCSLKPK 300
QY 301 QPGHKTQRPPEMPSINLGRSCISVANSTFQSDGQWDPHIVEWH 346
Db 301 QPGHKTQRPPEMPSINLGRSCISVANSTFQSDGQWDPHIVEWH 346

RESULT 2
GP81_MOUSE STANDARD; PRT; 343 AA.
AC Q8C131;
DT 10-OCT-2003 (Rel. 42, Created)
DT 10-OCT-2003 (Rel. 42, Last sequence update)
DE 10-OCT-2003 (Rel. 42, Last annotation update)
DE Probable G protein-coupled receptor GPR81.
GN GPR81.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
OX NCBI_TaxID=10090;

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[1] SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Skin;
RX MEDLINE=22354683; PubMed=12466851;
RA Okazaki Y., Furuno M., Kasukawa T., Adachi J., Bono H., Kondo S.,
RA Yagi K., Tomaru Y., Hasegawa Y., Nogami A., Yamanaka I., Kiyosawa H.,
RA Baldarelli R., Hill D.P., Bult C., Hume D.A., Quackenbush J.,
RA Schriml L.M., Kanapin A., Matsuda H., Batalov S., Beisel K.W.,
RA Blake J.A., Bradt D., Brusci V., Chothia C., Corbani L.E., Cousins S.,
RA Dalla E., Dragani T.A., Fletcher C.F., Forrest A., Frazer K.S.,
RA Gaasterland T., Gariboldi M., Gissi C., Godzik A., Gough J.,
RA Grimmond S., Gustincich S., Hirokawa N., Jackson I.J., Jarvis E.D.,
RA Kanai A., Kawaji H., Kawasaki Y., Kedzierski R.M., King B.L.,
RA Kongsaga A., Kurochkin I.V., Lee Y., Lenhard B., Lyons P.A.,
RA Maglott D.R., Maltais L., Marchionni L., McKenzie L., Miki H.,
RA Nagashima T., Numata K., Okido T., Pavan W.J., Pertea G., Pesole G.,
RA Petrovsky N., Pillai R., Pontius J.U., Qi D., Ramchandran S.,
RA Ravasi T., Reed J.C., Reid D.J., Reid J., Ring B.Z., Ringwald M.,
RA Sandelin A., Schneider C., Semple C.A., Setou M., Shimada K.,
RA Sultana R., Takenaka Y., Taylor M.S., Teasdale R.D., Tomita M.,
RA Verardo R., Wagner L., Wahlestedt C., Wang Y., Watanabe Y., Wells C.,
RA Wilming L.G., Wyshaw-Boris A., Yanagisawa M., Yang I., Yang L.,
RA Yuan Z., Zavolan M., Zhu Y., Zimmer A., Carninci P., Hayatsu N.,
RA Hirozane-Kishikawa T., Konno H., Nakamura K., Sakazume N., Sato K.,
RA Shiraki T., Waki K., Kawai J., Aizawa K., Arakawa T., Fukuda S.,
RA Hara A., Hashizume W., Imotani K., Ishii Y., Itoh M., Kagawa I.,
RA Miyazaki A., Sakai K., Sasaki D., Shibata K., Shinagawa A.,
RA Yasunishi A., Yoshino M., Waterston R., Lander E.S., Rogers J.,
RA Birney E., Hayashizaki Y.,
RA "Analysis of the mouse transcriptome based on functional annotation of
60,770 full-length cDNAs."
RL Nature 420:563-573 (2002).
CC -!- FUNCTION: Orphan receptor.
CC -!- SUBCELLULAR LOCATION: Integral membrane protein.
CC -!- SIMILARITY: Belongs to family 1 of G-protein coupled receptors.
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CC or send an email to license@isb-sib.ch).
DR EMBL; AK029064; BAC26273.1; -
DR MGI; MGI:2441671; Gpr81.
DR InterPro; IPR000276; GPCR_Rhodopsn.
DR Pfam; PF00001; 7tm.1; 1.
DR PRINTS; PR00237; GPCRHOODPSN
DR PROSITE; PS00237; G_PROTEIN_RECEP_F1_1; 1.
DR PROSITE; PS00262; G_PROTEIN_RECEP_F1_2; 1.
KW G-protein coupled receptor; Transmembrane; Glycoprotein.
FT DOMAIN 1 21 EXTRACELLULAR (POTENTIAL).
FT TRANSMEM 22 42 1 (POTENTIAL).
FT DOMAIN 43 49 CYTOPLASMIC (POTENTIAL).
FT TRANSMEM 50 70 2 (POTENTIAL).
FT DOMAIN 71 90 EXTRACELLULAR (POTENTIAL).
FT TRANSMEM 91 111 3 (POTENTIAL).
FT DOMAIN 112 131 CYTOPLASMIC (POTENTIAL).
FT TRANSMEM 132 152 4 (POTENTIAL).
FT DOMAIN 153 182 EXTRACELLULAR (POTENTIAL).
FT TRANSMEM 183 203 5 (POTENTIAL).
FT DOMAIN 204 220 CYTOPLASMIC (POTENTIAL).
FT TRANSMEM 221 241 6 (POTENTIAL).
FT DOMAIN 242 259 EXTRACELLULAR (POTENTIAL).
FT TRANSMEM 260 280 7 (POTENTIAL).
FT DOMAIN 281 343 CYTOPLASMIC (POTENTIAL).
FT DISULFID 88 165 BY SIMILARITY.
FT CARBOHYD 3 3 N-LINKED (GLCNAC...) (POTENTIAL).
SQ SEQUENCE 343 AA; 38927 MW; 917FA9499B2E03FD CRC64;

Query Match 80.0%; Score 1483; DB 1; Length 343;

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Best Local Similarity 81.4%; Pred. No. 2.8e-99;
Matches 276; Conservative 19; Mismatches 44; Indels 0; Gaps 0;

QY 1 MYNGSCREGETISQVMPPLIVAFVLGNLGVNLCGFCFHMKTWKSTVYLFNLAVA 60
Db 1 MONGSCCLLEGPIISQVMPPLILVFLVGNLGVNLCGFCFHMKTWKSTVYLFNLAVA 60

QY 61 DELLMIICLPFRDYLRERRHWAFGDIPCRVGLFTLANRAGSIVFLTVVAADRYFKVHP 120
Db 61 DELLMIICLPFRDYLRERRHWAFGDIACRLVFLKLANRAGSIVFLTVVAADRYFKVHP 120

QY 121 HAVNTISTRVAGIVCTLWALVILGTVYLLNHLVCQVETAVSCBSFIMESANGHMDIM 180
Db 121 HMVNAISNRATAACVLWTLVILGTVYLLNHLVCQVETAVSCBSFIMESANGHMDIM 180

QY 181 FOLEPFMPILGILFCSEFKVWSLRQQOARQARKKATRFIMVVAIVITCYLPSVSAR 240
Db 181 FOLEPFMPILGILFCSEFKVWSLRQQOARQARKKATRFIMVVAIVITCYLPSVSAR 240

QY 241 LYELMTVPSSACDPSVHGALHITLSTYMNMLDPLVYFSSPFPKFNKIKICSLKPK 300
Db 241 LYELMTVPSSACDPSVHTALHITLSTYMNMLDPLVYFSSPFPKFNKIKICSLKPK 300

QY 301 QFGHKTQRPBEMPISNLRRCSCISVANSFQSDGQWD 339
Db 301 QFGHKTQRPBEMPISNLRRCSCISVANSFQSDGQWD 339

RESULT 3
HM74_HUMAN
ID HM74_HUMAN STANDARD; PRT; 387 AA.
AC P49019;
DT 01-FEB-1996 (Rel. 33, Created)
DT 01-FEB-1996 (Rel. 33, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Probable G protein-coupled receptor HM74.
GN HM74.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Monocytes;
RX MEDLINE=94092629; PubMed=7505609;
RA Nomura H., Nielsen B.W., Matsushima K.;
RT "Molecular cloning of cDNAs encoding a LD78 receptor and putative
leukocyte chemotactic peptide receptors.";
RL Int. Immunol. 5:1239-1249(1993).
CC -!- FUNCTION: Orphan receptor.
CC -!- SUBCELLULAR LOCATION: Integral membrane protein.
CC -!- SIMILARITY: Belongs to family 1 of G-protein coupled receptors.
CC -----
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CC -----
CC EMBL; D10923; BAA01721.1; -;
CC F01; 169202; 169202.
CC DR HSSP; P34996; 1DDD.
CC DR MIM; 606039; -;
CC DR GO; GO:0005887; C:integral to plasma membrane; TAS.
CC DR GO; GO:0004930; F:G-protein coupled receptor activity; TAS.
CC DR GO; GO:0007186; P:G-protein coupled receptor protein signaling. . .; TAS.
CC DR InterPro; IPR000276; GPCR_Rhodpsn.
CC DR Pfam; PF00001; 7tm.1; 1.
CC DR PRINTS; PR00027; GPCRHHOOPS.
CC DR PROSITE; PS00237; G-PROTEIN_RECEP_F1_1; 1.
CC PROSITE; PS0262; G-PROTEIN_RECEP_F1_2; 1.

G-protein coupled receptor; Transmembrane.
DOMAIN 1 28 EXTRACELLULAR (POTENTIAL).
TRANSMEM 29 50 1 (POTENTIAL).
DOMAIN 51 63 CYTOPLASMIC (POTENTIAL).
TRANSMEM 64 85 2 (POTENTIAL).
DOMAIN 86 102 EXTRACELLULAR (POTENTIAL).
TRANSMEM 103 123 3 (POTENTIAL).
DOMAIN 124 142 CYTOPLASMIC (POTENTIAL).
TRANSMEM 143 163 4 (POTENTIAL).
DOMAIN 164 194 EXTRACELLULAR (POTENTIAL).
TRANSMEM 195 209 5 (POTENTIAL).
DOMAIN 210 236 CYTOPLASMIC (POTENTIAL).
TRANSMEM 237 256 6 (POTENTIAL).
DOMAIN 257 273 EXTRACELLULAR (POTENTIAL).
TRANSMEM 274 298 7 (POTENTIAL).
DOMAIN 299 387 CYTOPLASMIC (POTENTIAL).
DISULFID 100 177 BY SIMILARITY.
SQ SEQUENCE 387 AA; 44481 MW; C244F562C234647 CRC64;

Query Match 47.5%; Score 880.5; DB 1; Length 387;
Best Local Similarity 52.2%; Pred. No. 3.8e-56;
Matches 178; Conservative 49; Mismatches 107; Indels 7; Gaps 4;

QY 5 SCRIEEDTISQVMPPLIVAFVLGNLGVNLCGFCFHMKTWKSTVYLFNLAVADPFL 64
Db 17 NCCVFRDDPIAKVLPVILGFIPLGLNGLALWIFCFHLKSNKSSIFLNLAVADPFL 76

QY 65 MLCPLPRTDYLRERRHWAFGDIPCRVGLFTLANRAGSIVFLTVVAADRYFKVHPHVA 124
Db 77 IICLPFVMDYVYRRSDNFGDIPCRVLFMFAMNRQSGIIFLTVAADRYFKVHPHVA 136

QY 125 NTISTEVAAGIVCTLWALVILGTVYLLNHLVCQVETAVSCBSFIMESANGHMDIMFOLE 184
Db 137 NKISNNTAAIISCLLWGTVGLTVHLLKKLLQNGPANVCISFSICHTFRHHEAMFELLE 196

QY 185 FFMPLGIILFCSEFKVWSLRQQOARQARKKATRFIMVVAIVITCYLPSVSARLYEL 244
Db 197 FLLPLGIILFCSEFKVWSLRQQOARQARKKATRFIMVVAIVITCYLPSVSARLYEL 255

QY 245 WTVPSA----CD--PSVHGALHITLSTYMNMLDPLVYFSSPFPKFNKIKICSLKPK 299
Db 256 WLLHTSGTQNCVYRSVDLAFITLSTYMNMLDPLVYFSSPFPKFNKIKICSLKPK 315

QY 300 QFGHKTQRPBEMPISNLRRCSCISVANSFQSDGQWD 340
Db 316 KATGEDNNRSTVELTGDPNKT-RGAPFALMANSGEPSWSP 355

RESULT 4
GP31_HUMAN
ID GP31_HUMAN STANDARD; PRT; 319 AA.
AC O00270;
DT 15-JUL-1998 (Rel. 36, Created)
DT 15-JUL-1998 (Rel. 36, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Probable G protein-coupled receptor GPR31.
GN GPR31.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Placenta;
RX MEDLINE=97349123; PubMed=9205127;
RA Zingoni A., Rocchi M., Storlazzi C.T., Bernardini G., Santoni A.,
RT Napolitano M.;
RT "Isolation and chromosomal localization of GPR31, a human gene
encoding a putative G protein-coupled receptor.";
RL Genomics 42:519-523(1997).
CC -!- FUNCTION: Orphan receptor.
CC -!- SUBCELLULAR LOCATION: Integral membrane protein.
CC -!- SIMILARITY: Belongs to family 1 of G-protein coupled receptors.

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EMBL; U65402; AAC51375.1; -;
 Genbank; HGNC:4486; GPR31.

GO; GO:0005887; C: integral to plasma membrane; TAS.
 GO; GO:004930; F: G-protein coupled receptor activity; TAS.

GO; GO:0007186; P: G-protein coupled receptor protein signalin. .; TAS.
 InterPro; IPR000276; GPCR_Rhodpsn.

Pfam; PF00001; 7tm.1; 1.
 PRINTS; PR00237; GPCRHHODPSN.

PROSITE; PS00237; G-PROTEIN RECP F1.1; 1.
 PROSITE; PS0262; G-PROTEIN RECP F1.2; 1.

G-protein coupled receptor; Transmembrane.
 DOMAIN 1 16 EXTRACELLULAR (POTENTIAL).

TRANSMEM 17 37 1 (POTENTIAL).

DOMAIN 38 52 CYTOPLASMIC (POTENTIAL).

TRANSMEM 53 73 2 (POTENTIAL).

DOMAIN 74 91 EXTRACELLULAR (POTENTIAL).

TRANSMEM 92 110 3 (POTENTIAL).

DOMAIN 111 131 CYTOPLASMIC (POTENTIAL).

TRANSMEM 132 152 4 (POTENTIAL).

DOMAIN 153 180 EXTRACELLULAR (POTENTIAL).

TRANSMEM 181 201 5 (POTENTIAL).

DOMAIN 202 219 CYTOPLASMIC (POTENTIAL).

TRANSMEM 220 240 6 (POTENTIAL).

DOMAIN 241 265 EXTRACELLULAR (POTENTIAL).

TRANSMEM 266 284 7 (POTENTIAL).

DOMAIN 285 319 CYTOPLASMIC (POTENTIAL).

CARBOHYD 5 N-LINKED (GLCNAC. .) (POTENTIAL).

SEQUENCE 319 AA; 35079 MW; 7A4F164CD9C969DD CRC64;

Query Match 24.2%; Score 448.5; DB 1; Length 319;
 Best Local Similarity 34.0%; Pred. No. 2.4e-25;

Matches 100; Conservative 62; Mismatches 121; Indels 11; Gaps 5;

QY 7 CRIGEDTISQVMPPLLIIVAFVIGALGNGVALCGFCFHMKTWKPTVILNLAADFLLMI 66
 Db 6 CSAPSTVATAVGVLLGLECGILGNAVALTFLFRVWKPYAVVLLNLAADLLAA 65

QY 67 CLPRTDYLLRRHWAFGDIPCRVGLFTLANRAGSIVFLTVVADRYKVVHPHNAVNT 126
 Db 66 CLPFLAAYLSLQAWHLGRVGCWALRFLLDLSRSVGNFLAAVALDRYLVVHPRLKYNL 125

QY 127 ISTRVAAGIVCTLWALVILGVVYLLNHLCVQETAVSCSFIMESANG-----WHDIMF 181
 Db 126 LSPQALGVSLWMLLWALTCPELLISE--AAONSTRCHSF-YSRADGFSFIWQALSL 182

QY 182 QLREFFMPLGILFCSPKIVMSLRER-QQLARQARMKXATRFIMVVAIVFTICPLYSVAR 240
 Db 183 CLQPLVPLGLVFCNAGILRALQKRLREPEKQPLQRAQALVTLVVLVLCPLPCFLAR 242

QY 241 --LYELMTVPSACDPSVGHALHTLSTFTWNSMLDLYVFFSPSPKPKYNKL 292
 Db 243 VLMHIFQNLGSCALCAVAHTSDVTGSLTYLHVSVPVVCYFSSPTFRSSYRRV 296

RESULT 5
 CLT2_MOUSE STANDARD; PRT; 309 AA.

AC Q920AL;
 DT 28-FEB-2003 (Rel. 41, Created)

DT 28-FEB-2003 (Rel. 41, Last sequence update)

DT 28-FEB-2003 (Rel. 41, Last annotation update)

DE Cysteinyl leukotriene receptor 2 (CysLTR2).
 GN CysLTR2 OR CysLTR2.

OS

OC Mus musculus (Mouse).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

OX NCBI_TaxID=10090;

RP [1]

RN SEQUENCE FROM N.A.

RC TISSUE=Heart;

RE MEDLINE=21601669; PubMed=11591709;

RA Hui Y., Yang G., Galczinski H., Figueroa D.J., Austin C.P.,

RA Copeland N.G., Gilbert D.J., Jenkins N.A., Funk C.D.;

RT "The murine cysteinyl leukotriene 2 (CysLTR2) receptor. cDNA and

RT genomic cloning, alternative splicing, and in vitro

RT characterization.,"

RL J. Biol. Chem. 276:47489-47495 (2001).

CC -!- FUNCTION: Receptor for cysteinyl leukotrienes. The response is

CC mediated via a G-protein that activates a phosphatidylinositol-

CC calcium second messenger system. The rank order of affinities for

CC the leukotrienes is LTC4 > LTD4 >> LTE4.

CC -!- SUBCELLULAR LOCATION: Integral membrane protein.

CC -!- TISSUE SPECIFICITY: Widely expressed at low levels, with highest

CC expression in the spleen, thymus and adrenal gland, and lower in

CC the kidney, brain and peripheral blood leukocytes.

CC -!- SIMILARITY: Belongs to family 1 of G-protein coupled receptors.

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EMBL; AF331658; AAK97354.1; -;

GO; GO:0016020; C: membrane; IDA.

GO; GO:0001631; F: cysteinyl leukotriene receptor activity; IDA.

InterPro; IPR004071; Cysleuk_receptor.

InterPro; IPR000276; GPCR_Rhodpsn.

Pfam; PF00001; 7tm.1; 1.

PRINTS; PR01533; CysLTR2RCPTR.

DR

DR PRINTS; PR00237; GPCRHHODPSN.

DR PROSITE; PS00237; G-PROTEIN RECP F1.1; FALSE_NEG.

DR PROSITE; PS0262; G-PROTEIN RECP F1.2; 1.

KW G-protein coupled receptor; Transmembrane; Glycoprotein.

FT DOMAIN 1 26 EXTRACELLULAR (POTENTIAL).

FT TRANSMEM 27 47 1 (POTENTIAL).

FT DOMAIN 48 56 CYTOPLASMIC (POTENTIAL).

FT TRANSMEM 57 77 2 (POTENTIAL).

FT DOMAIN 78 98 EXTRACELLULAR (POTENTIAL).

FT TRANSMEM 99 119 3 (POTENTIAL).

FT DOMAIN 120 138 CYTOPLASMIC (POTENTIAL).

FT TRANSMEM 139 159 4 (POTENTIAL).

FT DOMAIN 160 187 EXTRACELLULAR (POTENTIAL).

FT TRANSMEM 188 208 5 (POTENTIAL).

FT DOMAIN 209 229 6 (POTENTIAL).

FT TRANSMEM 230 250 7 (POTENTIAL).

FT DOMAIN 251 271 EXTRACELLULAR (POTENTIAL).

FT TRANSMEM 272 292 7 (POTENTIAL).

FT DOMAIN 293 309 CYTOPLASMIC (POTENTIAL).

FT DISULFID 95 171 BY SIMILARITY.

FT CARBOHYD 14 14 N-LINKED (GLCNAC. .) (POTENTIAL).

SEQUENCE 309 AA; 35227 MW; 327B14A6EDDD2A02 CRC64;

Query Match 20.0%; Score 371.5; DB 1; Length 309;
 Best Local Similarity 32.7%; Pred. No. 7.5e-20;

Matches 96; Conservative 56; Mismatches 125; Indels 17; Gaps 7;

QY 2 YNGSCCRIGDTISQVMPPLLIIVAFVIGALGNGVALCGFCFHMKTWKPTST---VYLFMLA 58

Db 10 YSNENCTIE-NFKKEFVPIIYLIIFFGALGNGFSIVVF---LQCKKSTSVNVEFMLLA 65

QY 59 VADELLMICLPFRDYYLRRHWAFGDIPCHVGFTLANRAGSIVFLTVVADRYKVV 118

Db 59 VADELLMICLPFRDYYLRRHWAFGDIPCHVGFTLANRAGSIVFLTVVADRYKVV 118

Db 66 TSDFELFISTLPFRADYFRRGNSWIPGLACRVMYSLYVNMYSIYFLTLVLSVVRQATV 125
QY 119 HPHHAWNTSTRVAAGIVCTLWALVILGTVYLLLENHLCVQETAVSC-----ESPIMESA 173
D5 126 HPRFMFHTSVR-SAWILCGIIVFWFIMASGALLVNGQBEKONIISCLSLSPQKF--KSL 182
QY 174 KGWHDIMEQLEFFEMPLGIILFCSEFKIWMGLRRQ--QLARQRMKKAFTIMVVAIVEIT 231
D5 183 LTMHIAVAVGELLPLLTITVCLLIRLLKARIPESFRAHRAKLTIVIAMITPLL 242
QY 232 CYLPVSARLYFLWTPVSSACDPSVHGALHTLSFTYMSMLDPLVYFSSPSF 285
D5 243 CELPYHALRTHLVWTKDSCGDLVHKATVITLMAAASCNFPFYFAGENF 296

RESULT 6
CLNT2_HUMAN
ID CLNT2_HUMAN STANDARD; PRT; 346 AA.
AC Q9NS75; Q9HCQ2;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 15-MAR-2004 (Rel. 43, Last annotation update)
DE Cysteinyl leukotriene receptor 2 (CysLTR2) (PSEC0146) (HG57) (HPN321) (hGPCR21).
DE CysLTR2 OR CysLTR2 OR CysLTR2.
GN CysLTR2 OR CysLTR2 OR CysLTR2.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
[1]
RP SEQUENCE FROM N.A.
RC TISSUE=Placenta;
RX MEDLINE=20374466; PubMed=10913337;
RA Takasaki J., Kamohara M., Matsumoto M., Saito T., Sugimoto T., Ota T.,
RA Nishikawa T., Kawai Y., Maehou Y., Isogai T., Suzuki Y., Sugano S.,
RA Furuichi K.;
RT "The molecular characterization and tissue distribution of the human
RT cysteinyl leukotriene CysLTR2 receptor."
RL Biochem. Biophys. Res. Commun. 274:316-322 (2000).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=20459128; PubMed=10851239;
RA Heise C.E., O'Dowd B.F., Figueroa D.J., Sawyer N., Nguyen T.,
RA Im D.-S., Stocco R., Bellefeuille J.N., Abramovitz M., Cheng R.,
RA Williams D.L. Jr., Zeng Z., Liu Q., Ma L., Clements M.K., Coulombe N.,
RA Liu Y., Austin C.P., George S.R., O'Neill G.P., Metters K.M.,
RA Lynch K.R., Evans J.F.;
RT "Characterization of the human cysteinyl leukotriene 2 receptor."
RL J. Biol. Chem. 275:30531-30536 (2000).
RN [3]
RP SEQUENCE FROM N.A.
RX MEDLINE=20545741; PubMed=11093801;
RA Nethacker H.-P., Wang Z., Zhu Y., Reinscheid R.K., Lin S.H.S.,
RA Civelli O.;
RT "Molecular cloning and characterization of a second human cysteinyl
RT leukotriene receptor: discovery of a subtype selective agonist."
RL Mol. Pharmacol. 58:1601-1608 (2000).
RN [4]
RP SEQUENCE FROM N.A.
Dunn M.;
RL Submitted (FEB-2001) to the EMBL/GenBank/DBJ databases.
RN [5]
RP SEQUENCE FROM N.A.
RX MEDLINE=22040266; PubMed=12044878;
RA Takeda S., Kadowaki S., Haga T., Takaesu H., Mitaku S.;
RT "Identification of G protein-coupled receptor genes from the human
RT genome sequence."
RL FEBS Lett. 520:97-101 (2002).
RN [6]
RP SEQUENCE FROM N.A.
RA Kopatz S.A., Aronstam R.S., Sharma S.V.;
RT "cDNA clones of human proteins involved in signal transduction
RT sequenced by the Guthrie cDNA resource center (www.cdna.org).";

Submitted (SEP-2003) to the EMBL/GenBank/DBJ databases.
[7]
SEQUENCE OF 17-346 FROM N.A.
RA Suga H.;
RL "Homo sapiens cysteinyl leukotriene receptor 1 like receptor.";
CC Submitted (APR-2000) to the EMBL/GenBank/DBJ databases.
CC -!- FUNCTION: Receptor for cysteinyl leukotrienes. The response is
CC mediated via a G-protein that activates a phosphatidylinositol-
CC partial agonist, induces specific contractions of pulmonary veins
CC and might also have an indirect role in the relaxation of the
CC pulmonary vascular endothelium. The rank order of affinities for
CC the leukotrienes is LTC4 > LTD4 >> LTE4.
CC -!- SUBCELLULAR LOCATION: Integral membrane protein.
CC -!- TISSUE SPECIFICITY: Widely expressed, with highest levels in the
CC heart, placenta, spleen, peripheral blood leukocytes and adrenal
CC gland. In lung, expressed in the interstitial macrophages, and
CC slightly in smooth muscle cells.
CC -!- SIMILARITY: Belongs to family 1 of G-protein coupled receptors.
CC
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CC
CC EMBL; AB038269; BAB03601.1; -
CC EMBL; AF254664; AAG17281.1; -
CC EMBL; AF279611; AAK69485.1; -
CC EMBL; AL137118; CAC23102.1; -
CC EMBL; AB083603; BAB89316.1; -
CC EMBL; AY389504; AAG1330.1; -
CC EMBL; AB041644; BAB16379.1; -
CC Genew; HGNC:18274; CysLTR2.
CC MIM; 605666;
CC GO; GO:0004974; F:leukotriene receptor activity; NAS.
CC GO; GO:0006955; P:immune response; NAS.
CC InterPro; IPR004071; Cysleuk receptor.
CC InterPro; IPR00276; GPCR_Rhodopsn.
CC Pfam; PF00001; 7tm_1; 1.
CC PRINTS; PR01533; CysLTR2RCPTR.
CC PRINTS; PR00237; GPCR_Rhodopsn.
CC PROSITE; PS00237; G-PROTEIN RECP F1_1; FALSE_NEG.
CC PROSITE; PS0262; G-PROTEIN RECP F1_2; 1.
CC G-protein coupled receptor; Transmembrane; Glycoprotein.
KW DOMAIN 1 42
FT TRANSMEM 43 63
FT DOMAIN 64 72
FT TRANSMEM 73 93
FT DOMAIN 94 123
FT TRANSMEM 124 144
FT DOMAIN 145 153
FT TRANSMEM 154 174
FT DOMAIN 175 204
FT TRANSMEM 205 225
FT DOMAIN 226 245
FT TRANSMEM 246 266
FT DOMAIN 267 286
FT TRANSMEM 287 307
FT DOMAIN 308 346
FT DISULFID 111 187
FT CARBOHYD 20 20
FT CARBOHYD 26 26
FT CARBOHYD 30 30
FT CARBOHYD 181 181
SQ SEQUENCE 346 AA; 39635 MW; EBS44A42DDC5EE4 CRC64;
Query Match 19.8%; Score 366.5; DB 1; Length 346;
Best Local Similarity 29.9%; Pred. No. 1.9e-19;
Matches 94; Conservative 69; Mismatches 134; Indels 17; Gaps 8;

QY 3 NGSCCRIBGDTISQVMPPLLIIVAFVLGALNGVALCGFCFHMKTWKST---VYLFLNLA 59
 Db 27 NSRNTIE-NFKREFFPIVLIIFFWGLNGLSIYF---LQPKKSTSVNFMNLIAI 82
 QY 60 ADFLLMICLPRTDYLRHREHWAEGDIPCRVGLFTLANRAGSIVFLTWAAADRYFKVWH 119
 Db 83 SLLPFIPTLPFRADYLRGNSWIFGLACRIMSYSLYNNYSSIVFLTVLSVRELAWH 142
 QY 120 PHAVNTISITVAAGIVCTLWALVILGVYVLLLENHLCVQTAVSC---ESFIMESANGW 176
 Db 143 PFRLLHTSIR-SAMILCGIITWILMASSIMLLDGSQSGSVTSCLENLNYKIAKLTQM 201
 QY 177 HDIMFOLEFFMPLGLIILFCSEKIVWSLRRQ--OLARQARKKATRTFMVAIVFLTCYL 234
 Db 202 NYIALVVGCLLPFTLSICYLIIIRVLKVPSPGSLRVSHKATTTIIITLIIFFLCFL 261
 QY 235 PVSARLYFLWTVPSSACDPSVHGALHITLSFTYMSMLDPLVYFSPSPKPKYKLI 294
 Db 262 PYHTLRTHLTTWKVGLCKDLKHALVITLALAAANACFNELLYFAGENFK---DRUK- 317
 QY 295 CSLKPKQGHSKTK 308
 Db 318 SALRKGHPQAKTK 331
 RESULT 7
 P2YR CHICK
 ID P2YR CHICK STANDARD; PRT; 362 AA.
 AC P3496;
 DT 01-FEB-1994 (Rel. 28, Created)
 DT 01-FEB-1994 (Rel. 28, Last sequence update)
 DT 15-MAR-2004 (Rel. 43, Last annotation update)
 DE P2Y purinoceptor 1 (ATP receptor) (P2Y1) (Purinergic receptor).
 GN P2Y1.
 OS Gallus gallus (Chicken).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
 OC Gallus.
 OC NCBI_TaxID=9031;
 RN (1)
 RP SEQUENCE FROM N.A.
 RC TISSUE=Brain;
 RA MEDLINE=93285340; PubMed=8508924;
 RA Webb T.E., Simon J., Krishek B.J., Bateson A.N., Smart T.G.,
 RA King B.F., Burnstock G., Barnard E.A.;
 RT "Cloning and functional expression of a brain G-protein-coupled ATP
 RT receptor";
 RL FEBS Lett. 324:219-225 (1993).
 RN (2)
 RN 3D-STRUCTURE MODELING.
 RP MEDLINE=97026278; PubMed=8872457;
 RA van Rhee A.M., Fischer B., van Galen P.J.M., Jacobson K.A.;
 RT "Modelling the P2Y purinoceptor using rhodopsin as template.";
 RL Drug Des. Discov. 13:133-140 (1995).
 CC -1- FUNCTION: Receptor for extracellular adenine nucleotides such as
 CC ATP and ADP. Seems to mediate its action via a pertussis toxin
 CC insensitive G-protein, probably belonging to the Gq family that
 CC activate a phosphatidylinositol-calcium second messenger system.
 CC -1- SUBCELLULAR LOCATION: Integral membrane protein.
 CC -1- TISSUE SPECIFICITY: Brain, spinal cord, gastrointestinal tract,
 CC spleen and leg muscle. Is not detected in the heart, liver,
 CC stomach, lung and kidney.
 CC -1- SIMILARITY: Belongs to family 1 of G-protein coupled receptors.
 CC
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 CC
 CC EMBL; X73268; CAA51716.1; -.

DR PIR: S33733; S33733.
 DR PDB: 1DDD; 11-JUL-96.
 DR InterPro: IPR000276; GPCR_Rhodpsn.
 DR Pfam: PF00001; 7tm.1; 1.
 DR PRINTS: PR00237; GPCRHHODOPS.
 DR PROSITE: PS00237; G_PROTEIN_RECP_F1_1; 1.
 DR PROSITE: PS00262; G_PROTEIN_RECP_F1_2; 1.
 KW G-protein coupled receptor; Transmembrane; Glycoprotein; 3D-structure.
 FT DOMAIN 1 41
 FT TRANSMEM 42 63
 FT DOMAIN 64 76
 FT TRANSMEM 77 98
 FT DOMAIN 99 115
 FT TRANSMEM 116 136
 FT DOMAIN 137 155
 FT TRANSMEM 156 177
 FT DOMAIN 178 207
 FT TRANSMEM 208 227
 FT DOMAIN 228 254
 FT TRANSMEM 255 274
 FT DOMAIN 275 292
 FT TRANSMEM 293 317
 FT DOMAIN 318 362
 FT DISULFID 113 191
 FT CARBOHYD 11 11
 FT CARBOHYD 26 26
 FT CARBOHYD 102 102
 FT CARBOHYD 186 186
 FT HELIX 42 69
 FT HELIX 77 102
 FT HELIX 115 137
 FT HELIX 154 178
 FT HELIX 205 231
 FT HELIX 250 275
 FT HELIX 290 305
 FT TURN 306 307
 FT HELIX 308 320
 SQ SEQUENCE 362 AA; 41194 MW; AB06C88FB9514761 CRC64;
 Query Match 19.6%; Score 364; DB 1; Length 362;
 Best Local Similarity 29.1%; Pred. No. 3e-19;
 Matches 95; Conservative 58; Mismatches 130; Indels 44; Gaps 7;
 QY 18 MPPLIIVAFVLGALNGVALCGFCFHMKTWKSTVYLNLAADFLMICLPRTDYILR 77
 Db 43 LPVILVLIIFFWGLNGLSIYF---LQPKKSTSVNFMNLIAI 102
 QY 78 RHWAFGDIPCRVGLFTLANRAGSIVFLTWAAADRYFKVWHPHAVNTISITVAAGIVC 137
 Db 103 KTDWIFGDMVKLQRFIFHVNLYGSLFLTCISVHRTGVVHPLKSLGRLKKNAVYSS 162
 QY 138 TLWALVLT-----GTVLLLENHLCVQETA-----VSCSFIMESANGWHD 178
 Db 163 LWALVAVIAPIILFYSGTGVRNKTITCYDTTADLEYLSFYVSMCTTVFM----- 214
 QY 179 IMQLGEFFMPLGLIILFCSEKIVWSLRRQOLARQARKKATRTFMVAIVFLTCYL 235
 Db 215 -----FCIPFVILGCGYGLIVKALYK-DLDSPLRKRKSIYVILVTPAVSYLPHV 267
 QY 236 -----SVSARLYFLWTVPSSACDPSVHGALHITLSFTYMSMLDPLVYFSPSPKPKYK 291
 Db 268 MKTLNLRARLDF-QTPQMCFAFDKVVATYQVTRGLASLNSCVDPILYFLAGDTFRRLSR 326
 QY 292 LKICSLKPKQGHSKTKQRPPEMPSIML 318
 Db 327 ATRKSRSRSEP--NVQSKSEKTNIL 351
 RESULT 8
 P2YR MELGA
 ID P2YR MELGA STANDARD; PRT; 362 AA.
 AC P49652;
 DT 01-FEB-1996 (Rel. 33, Created)


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RESULT 11
P2YR RAT STANDARD; PRT; 373 AA.
ID AC P49651;
DT 01-FEB-1996 (Rel. 33, Created)
DT 01-FEB-1996 (Rel. 33, Last sequence update)
DT 01-FEB-1996 (Rel. 33, Last annotation update)
DE P2Y purinoceptor 1 (ATP receptor) (P2Y1) (Purinergic receptor).
GN P2Y1.

OS Rattus norvegicus [Rat].
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
SEQUENCE FROM N.A.
RP SEQUENCE=Insulinoma;
RX MEDLINE=95298025; PubMed=7779087;
RA Tokuyama Y., Hara M., Jones E.M.C., Fan Z., Bell G.I.;
RT "Cloning of rat and mouse P2Y purinoceptors";
RL Biochem. Biophys. Res. Commun. 211:211-218(1995).
CC -!- FUNCTION: Receptor for extracellular adenine nucleotides such as
CC ATP and ADP. In pancreatic islets, may mediate some of the effects
CC of extracellular ATP on insulin secretion.
CC -!- SUBCELLULAR LOCATION: Integral membrane protein.
CC -!- TISSUE SPECIFICITY: Expressed in muscle, heart, liver, kidney,
CC lung, brain, spleen, but not in testis.
CC -!- SIMILARITY: Belongs to family 1 of G-protein coupled receptors.
CC
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CC
CC EMBL: U22830; AAA91303.1; --
CC HSPSP: P34996; IDD
CC InterPro: IPR000276; GPCR_Rhodopsn.
CC
CC Pfam: PF00001; 7tm1.1;
CC PRINTS: PR00237; GPCRHOOPS.
CC PROSITE: PS00237; G-PROTEIN RECEPTOR FL 1; 1.
CC PROSITE: PS0262; G-PROTEIN RECEPTOR FL 2; 1.
CC G-protein coupled receptor; Transmembrane; Glycoprotein.
CC DOMAIN 1 52 EXTRACELLULAR (POTENTIAL).
CC TRANSMEM 53 74
CC DOMAIN 75 87
CC TRANSMEM 88 109
CC DOMAIN 110 126
CC TRANSMEM 127 147
CC DOMAIN 148 166
CC TRANSMEM 167 188
CC DOMAIN 189 218
CC TRANSMEM 219 238
CC DOMAIN 239 265
CC TRANSMEM 266 285
CC DOMAIN 286 303
CC TRANSMEM 304 328
CC DOMAIN 329 373
CC BY SIMILARITY.
CC DISULFID 124 202
CC CARBOHYD 11 11
CC CARBOHYD 27 27
CC CARBOHYD 113 113
CC CARBOHYD 197 197
CC SEQUENCE 373 AA; 42321 MW; 6DDF676287B5E648 CRC64;

Query Match 19.3%; Score 358.5; DB 1; Length 373;
Best Local Similarity 27.0%; Pred. No. 7.6e-19;
Matches 91; Conservative 68; Mismatches 139; Indels 39; Gaps 8;

QY 18 MPPLLIIVAFVLGALNGVALGCGCFHMKWKPSTVILFNLAADVFLMLICLPFRDYYLR 77

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Db 54 LPNAVILVFIIGLGNVAIWMFVFMKPSGISVTFNLADELIVLPLIFYYEN 113
QY 78 RHWFAPGDI PCRVGLFTLAMNAGSIVFTVVAADRYFKVPHPHAVNTISTEVAAGIVC 137
Db 114 KTDWIPGDMVKLQRFIFHNLVGSILFTICISAHRYSGVWVPLKSLGRLKKNALVSV 173
QY 138 TIWALVILGTVYLLLENHLCVQET-AVSC-----ESPIMESANGWHDIMFQLEFFM 187
Db 174 LVMLIVVVAISPIFYSGTGIRKNTVTCTDSTDSDEYLSRYISM-----CTTVAMFCI 228
QY 188 PLGILFSCFKIWMGLRRQQLARQMKKATRFIMVAIVFITCYLP-----SVSAR 240
Db 229 FLVILGCVGLIVRALIYK-DLDNSPLRKSYILVILVTVFAVSVIPHWMTMNLRAR 287
QY 241 LYFLWTVPSACD--PSVHGALHITLSFTYMSMLDPLVYFSSPFPKPKYKXKICSLK 298
Db 288 LDF---QTPMCDNFDRVVATYQVTRGLASLNSCVDPIYFLAGDTFRRLSLR----- 337
QY 299 PKQPGHSKTQRPPEMPISNLGRSCISVANSPQSQSD 335
Db 338 ----ATRKASRRSEANLQSKSEMTINILSEFKQNGD 370

RESULT 12
P2YR CAVPO STANDARD; PRT; 373 AA.
ID AC P59902;
DT 10-OCT-2003 (Rel. 42, Created)
DT 10-OCT-2003 (Rel. 42, Last sequence update)
DE P2Y purinoceptor 1 (ATP receptor) (P2Y1) (Purinergic receptor).
GN P2Y1.
OS Cavia porcellus (Guinea pig).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Hystricognathi; Caviidae; Cavia.
OX NCBI_TaxID=10141;
RN [1]
SEQUENCE FROM N.A.
RP STRAIN=Hartley; TISSUE=small intestine;
RA Gao N., Hu H., Zhu M.X., Wood J.D.;
RT "A novel P2Y1 receptor in the guinea pig submucous plexus";
RL Submitted (JUL-2001) to the EMBL/GenBank/DBSJ databases.
CC -!- FUNCTION: Receptor for extracellular adenine nucleotides such as
CC ATP and ADP (By similarity).
CC -!- SUBCELLULAR LOCATION: Integral membrane protein.
CC -!- SIMILARITY: Belongs to family 1 of G-protein coupled receptors.
CC
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CC
CC EMBL: AY048684; AAL05953.1; --
CC PROSITE: PS00237; G-PROTEIN RECEPTOR FL 1; 1.
CC PROSITE: PS0262; G-PROTEIN RECEPTOR FL 2; 1.
CC G-protein coupled receptor; Transmembrane; Glycoprotein.
CC DOMAIN 1 57 EXTRACELLULAR (POTENTIAL).
CC TRANSMEM 58 78
CC DOMAIN 79 89
CC TRANSMEM 90 110
CC DOMAIN 111 128
CC TRANSMEM 129 149
CC DOMAIN 150 167
CC TRANSMEM 168 188
CC DOMAIN 189 220
CC TRANSMEM 221 241
CC DOMAIN 242 258
CC TRANSMEM 259 279
CC DOMAIN 280 310 EXTRACELLULAR (POTENTIAL).

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RT purinoceptor.";
 RL Gene 171:295-297(1996).
 RN [2]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=96158962; PubMed=8579591;
 RA Ayyanathan K., Tania W., Harbansjit S., Ragbhir A.S., Barnard E.A.,
 RA Kunapuli S.P.;
 RT "Cloning and chromosomal localization of the human P2Y1
 RT purinoceptor.";
 RL Biochem. Biophys. Res. Commun. 218:783-788(1996).
 RN [3]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=96203320; PubMed=86300005;
 RA Janssens R., Communi D., Pirotton S., Samson M., Parmentier M.,
 RA Boeynaens J.M.;
 RT "Cloning and tissue distribution of the human P2Y1 receptor.";
 RL Biochem. Biophys. Res. Commun. 221:588-593(1996).
 RN [4]
 RP SEQUENCE FROM N.A.
 RX TISSUE=Blood;
 RA Leon C., Vial C., Weber J., Cazenave J.-P., Gacher C.;
 RL Submitted (JUN-1998) to the EMBL/GenBank/DBJ databases.
 RN [5]
 RP SEQUENCE FROM N.A.
 RX TISSUE=Lung;
 RA Publ H.L. III, Ikeda S.R., Aronstam R.S.;
 RT "cDNA clones of human proteins involved in signal transduction
 RT sequenced by the Guthrie cDNA resource center (www.cdna.org).";
 RL Submitted (JUL-2002) to the EMBL/GenBank/DBJ databases.
 RN [6]
 RP SEQUENCE OF 95-373 FROM N.A., FUNCTION, AND INHIBITION STUDIES.
 RX TISSUE=platelet;
 RA MEDLINE=98113162; PubMed=9442040;
 RA Jin J., Daniel J.L., Kunapuli S.P.;
 RT "Molecular basis for ADP-induced platelet activation. II. The P2Y1
 RT receptor mediates ADP-induced intracellular calcium mobilization and
 RT shape change in platelets.";
 RL J. Biol. Chem. 273:2030-2034(1998).
 CC -1- FUNCTION: Receptor for extracellular adenine nucleotides such as
 CC ATP and ADP. In platelets binding to ADP leads to mobilization of
 CC intracellular calcium ions via activation of phospholipase C, a
 CC change in platelet shape, and probably to platelet aggregation.
 CC -1- SUBCELLULAR LOCATION: Integral membrane protein.
 CC -1- INDUCTION: Repressed by the P2Y1 receptor-specific antagonists
 CC A3P5S, A3P5P, and A2P5P. These inhibit calcium ion mobilization
 CC and shape change in platelets.
 CC -1- SIMILARITY: Belongs to family 1 of G-protein coupled receptors.
 CC
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 CC
 CC EMBL; Z49205; CAA89066.1; -
 CC EMBL; U42030; AAA97873.1; -
 CC EMBL; U42029; AAA97872.1; -
 CC EMBL; S81950; AAB47091.1; -
 CC EMBL; AJ006945; CAA07339.1; -
 CC EMBL; AY136752; AAN01278.1; -
 CC EMBL; AF018284; AAB394556.1; -
 CC PIR; JC4737; JC4737.
 CC HSP; P34996; IDDO
 CC Genew; HGNC:8539; P2RY1.
 CC MIM; 601167; -
 CC GO; GO:0005887; C:integral to plasma membrane; TAS.
 CC GO; GO:0004872; F:receptor activity; TAS.
 CC GO; GO:0007166; P:cell surface receptor linked signal transdu. . .; TAS.
 CC GO; GO:0007200; P:G-protein signaling, coupled to IP3 second . . .; TAS.
 CC InterPro; IPR000276; GPCR_Rhodopsn.
 CC Pfam; PF00001; 7tm_1; 1.
 DR PRINTS: PR00237; GPCRHOOPS.
 DR PROSITE: PS00237; G-PROTEIN RECP_F1_1; 1.
 DR PROSITE: PS0262; G-PROTEIN RECP_F1_2; 1.
 KW G-protein coupled receptor; Transmembrane; Glycoprotein; Platelet;
 KW Blood coagulation.
 FT DOMAIN 1 52 EXTRACELLULAR (POTENTIAL).
 FT TRANSMEM 53 74 1 (POTENTIAL).
 FT DOMAIN 75 87 CYTOPLASMIC (POTENTIAL).
 FT TRANSMEM 88 109 2 (POTENTIAL).
 FT DOMAIN 110 126 EXTRACELLULAR (POTENTIAL).
 FT TRANSMEM 127 147 3 (POTENTIAL).
 FT DOMAIN 148 166 CYTOPLASMIC (POTENTIAL).
 FT TRANSMEM 167 188 4 (POTENTIAL).
 FT DOMAIN 189 218 EXTRACELLULAR (POTENTIAL).
 FT TRANSMEM 219 238 5 (POTENTIAL).
 FT DOMAIN 239 265 CYTOPLASMIC (POTENTIAL).
 FT TRANSMEM 266 285 6 (POTENTIAL).
 FT DOMAIN 286 303 EXTRACELLULAR (POTENTIAL).
 FT TRANSMEM 304 328 7 (POTENTIAL).
 FT DOMAIN 329 373 CYTOPLASMIC (POTENTIAL).
 FT DISULFID 124 202 BY SIMILARITY.
 FT CARBOHYD 11 11 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 27 27 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 113 113 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 197 197 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CONFLICT 138 138 MISSING (IN REF. 1).
 SQ SEQUENCE 373 AA; 42071 MW; 4DC7C668B4145392 CRC64;
 Query Match 19.1%; Score 354; DB 1; Length 373;
 Best Local Similarity 29.2%; Pred. No. 1.6e-18;
 Matches 93; Conservative 66; Mismatches 132; Indels 28; Gaps 8;
 QY 18 MPPLLIVAVLGVGALGVGVALGCGFCHMTKTPSTVYLNLAVALDFLLMLCLPFTDYLR 77
 DB 54 LPAYVILVFLGSLGNSVAIWMFVHKPWSGISVYMFNLALADFLYVLTLPALIFYEN 113
 QY 78 SRHAFGDIPIKRGVGLFTLMMNRAGSIVELTVVAADRYKVVHPHNAVNTISFVAGIYC 137
 DB 114 KIDWIFGDMCKLQRFIFHVNLYGSLFLTCISAHRYSGVYVPLKSLGKKNAICISV 173
 QY 138 TLWALVILGTVYLLENHLCVQET-AVSC-----ESFTMESANGMHDIMFQLEFFM 187
 DB 174 LVMLIVVVAISPILFYSGTVGRKNKTIICYTTSDEYLSRYFIYSM-----CTTVAMFCV 228
 QY 188 PLGILFCSFKIVWSLRRQQLARQARMKATRFIMVAIVITCYLP-----SVSAR 240
 DB 229 FLVILGCGILVRLAIYK-DLDNSPLERKSIYILVILTVFAVSYIPFHVMTMLRAR 287
 QY 241 LYFLWTVFSSACDPSVHGALHTLSFTYNSMLDPLVYFSSPSPKFKVNLKICSLKPK 300
 DB 288 LDF-QTPAMCAFNDRVYATYQVTRGLASLNSCVDILFLAGDTFR---RLSRATRKAS 343
 QY 301 QPGHSKTQ-RPEEMPISNL 318
 DB 344 RRSEANLQSKSEDMTLNLT 362
 RESULT 15
 P2YR MOUSE
 ID P2YR MOUSE STANDARD; PRT; 373 AA.
 AC P49650;
 DT 01-FEB-1996 (Rel. 33, Created)
 DT 01-FEB-1996 (Rel. 33, Last sequence update)
 DT 28-FEB-2003 (Rel. 41, Last annotation update)
 DE P2Y purinoceptor 1 (ATP receptor) (P2Y1) (Purinergic receptor).
 GN P2RY1.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 RN NCBI_TaxID=10090;
 RP SEQUENCE FROM N.A.
 RC TISSUE=Insulinoma;

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: June 30, 2004, 17:18:53 ; Search time 45 Seconds
(without alignments)
2425.984 Million cell updates/sec

Title: US-10-076-260-2

Perfect score: 1853

Sequence: 1 MYNSCCRIEGDTISQVMP.....ANSFQSGDQWDPRHVEWH 346

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1017041 seqs, 315518202 residues

Total number of hits satisfying chosen parameters: 1017041

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- 1: sp_archaea:*
- 2: sp_bacteria:*
- 3: sp_fungi:*
- 4: sp_human:*
- 5: sp_invertebrate:*
- 6: sp_mammal:*
- 7: sp_mhc:*
- 8: sp_organelle:*
- 9: sp_phage:*
- 10: sp_plant:*
- 11: sp_rodent:*
- 12: sp_virus:*
- 13: sp_vertebrate:*
- 14: sp_unclassified:*
- 15: sp_virus:*
- 16: sp_bacteriaph:*
- 17: sp_archaeap:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	883.5	47.7	363	4 Q8TDS4	Q8tds4 homo sapien
2	881.5	47.6	387	4 Q8NGE4	Q8nge4 homo sapien
3	868.5	46.9	360	11 Q9EP66	Q9ep66 mus musculus
4	862.5	46.5	360	11 Q8Q239	Q8q239 rattus norv
5	596	32.2	283	4 Q8NGV8	Q8ngv8 homo sapien
6	529	28.5	384	4 Q8NGW4	Q8ngw4 homo sapien
7	529	28.5	384	4 Q8NGW7	Q8ngw7 homo sapien
8	529	28.5	423	4 Q8TDS5	Q8tds5 homo sapien
9	450.5	24.3	319	4 Q9NQ20	Q9nq20 homo sapien
10	446.5	24.1	319	11 Q9JLS1	Q9jls1 mus musculus
11	375.5	20.3	309	11 Q8K528	Q8k528 mus musculus
12	351.5	19.0	390	13 Q8GQ4	Q8ggq4 carassius a
13	348.5	18.8	373	11 Q8BMJ5	Q8bmj5 mus musculus
14	342.5	18.5	357	13 Q9DE05	Q9de25 raja erinac
15	341	18.4	361	13 Q9QX57	Q9qx57 xenopus lae
16	340.5	18.4	370	11 Q8BKK1	Q8bkk1 mus musculus

17	337	18.2	339	4 Q8NS57	Q8ns57 homo sapien
18	336.5	18.2	370	11 Q8SLG2	Q8slg2 mus musculus
19	336	18.1	390	13 Q8AXM7	Q8axm7 carassius a
20	330	17.8	347	13 Q7ZZA4	Q7zza4 brachydanio
21	329.5	17.8	380	13 Q9DGQ6	Q9dgg6 carassius a
22	325	17.5	309	4 Q86UH4	Q86uh4 homo sapien
23	325	17.5	344	4 Q7Z3S0	Q7z3s0 homo sapien
24	323.5	17.5	344	4 Q7Z3S6	Q7z3s6 homo sapien
25	317.5	17.1	377	13 Q7T2S9	Q7t2s9 carassius a
26	316	17.1	477	13 Q8JID5	Q8jid5 carassius a
27	309.5	16.7	307	11 Q8BS98	Q8bs98 mus musculus
28	308.5	16.6	307	11 Q8CB97	Q8cb97 mus musculus
29	307	16.6	337	4 Q8IV19	Q8iv19 homo sapien
30	303.5	16.4	359	6 Q9NOU1	Q9nou1 ovis aries
31	301	16.2	385	11 Q8EQ97	Q8eq97 mus musculus
32	300.5	16.2	346	6 Q9SKS6	Q9sk56 ovis aries
33	300	16.2	367	6 Q8MI04	Q8mi04 ovis aries
34	298.5	16.1	385	4 Q86YF2	Q86yf2 homo sapien
35	298	16.1	375	11 Q8BY11	Q8by11 mus musculus
36	297	16.0	370	13 Q8UWL5	Q8uwl5 fugu rubrip
37	297	16.0	390	11 Q7T186	Q7t186 rattus norv
38	297	16.0	399	11 Q8R311	Q8r311 mus musculus
39	293	15.8	315	6 Q9GKP7	Q9gkp7 sus scrofa
40	293	15.8	374	13 Q57466	Q57466 meleagris g
41	293	15.8	385	11 Q9JK40	Q9jk40 mus musculus
42	292.5	15.8	361	6 Q46685	Q46685 bos taurus
43	292	15.8	317	11 Q99MT6	Q99mt6 mus musculus
44	292	15.8	359	6 Q9GLN9	Q9gln9 pan troglod
45	291	15.7	359	11 Q9EPF3	Q9epf3 cavia porce

ALIGNMENTS

RESULT 1

Q8TDS4 ID Q8TDS4 PRELIMINARY; PRT; 363 AA.
AC Q8TDS4;
DT 01-JUN-2002 (TRENBLrel. 21, Created)
DT 01-JUN-2002 (TRENBLrel. 21, Last sequence update)
DT 01-JUN-2003 (TRENBLrel. 24, Last annotation update)
DE Putative G-protein coupled receptor (Seven transmembrane helix receptor).
GN GPCR.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Takeda S., Kadowaki S., Haga T., Takaesu H., Mitaku S.;
RT "Identification of G protein-coupled receptor genes from the human genome sequence.";
RL Submitted (APR-2002) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RA Suwa M., Sato T., Okouchi I., Arita M., Futami K., Matsumoto S., Tsutsumi S., Aburatani H., Asai K., Akiyama Y.;
RT "Genome-wide discovery and analysis of human seven transmembrane helix receptor genes.";
RL Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.
RN [3]
RP SEQUENCE FROM N.A.
EX MEDLINE=22513959; PubMed=12522134;
RA Wise A., Ford S.M., Fraser N.J., Barnes A.A., Elshourbagy N., Eilert M., Ignar D.M., Murdock P.R., Steplewski K., Green A., Brown A.J., Dowell S.J., Szekeres P.G., Hassall D.G., Marshall F.H., Wilson S., Pike N.B.;
RT "Molecular Identification of High and Low Affinity Receptors for Nicotinic Acid.";
RL J. Biol. Chem. 278:9869-9874 (2003).
RN [4]
RP SEQUENCE FROM N.A.

Db	131	HFLNKSINRTAAISCFPLWGITIGLTVHLLYTDMMTRNGDANLCSSFSICYTFRWDAMF	196
Qy	182	QLEFMPGLIILFCSFKIWSLRROQLARQARKKATRFIMVAIVITCVLPVSARL	241
Db	191	LLEFPLPLAILFCSGRIIWSLRQ-QMDREAKIKRAINFIMVAIVITCVLPVSARL	249
Qy	242	YFLTWTPS---SACD--PSVHGALHITLSTFYMNSMLDPLVYFSSPSFPFYNKLKICS	296
Db	250	RIFLLYKHNVRNCDIYSSVDLAFETTLSTFYMNSMLDPLVYFSSPSFPFYNKLKICS	309
Qy	297	LKPQPGHSHKTQRPPEMPSIS	316
Db	310	LRRKTGLGEEDNNRSTSVELT	329
RESULT 5			
Qy	Q8NGV8	PRELIMINARY;	PRT; 263 AA.
Id	Q8NGV8	PRELIMINARY;	PRT; 263 AA.
Ac	Q8NGV8	PRELIMINARY;	PRT; 263 AA.
Dt	01-OCT-2002	(TrEMBLrel. 22, Created)	
Dt	01-OCT-2003	(TrEMBLrel. 22, Last sequence update)	
Dt	01-OCT-2003	(TrEMBLrel. 24, Last annotation update)	
De	Seven transmembrane helix receptor.		
Os	Homo sapiens (Human)		
Oc	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
Oc	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.		
Ox	NCBI_TaxID=9606;		
Rn	[1]		
Rp	SEQUENCE FROM N.A.		
Ra	Suga T., Saito T., Okouchi I., Arita M., Putami K., Matsumoto S.,		
Ra	Tsutsumi S., Aburatani H., Asai K., Akiyama Y.,		
Rt	*Genome-wide discovery and analysis of human seven transmembrane helix		
Rt	receptor genes.;		
Rl	Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.		
Dr	EMBL; AB065665; BAC05891.1;		
Dr	GO; GO:0016021; C:integral to membrane; IEA.		
Dr	GO; GO:0004872; F:receptor activity; IEA.		
Dr	GO; GO:0001584; F:rhodopsin-like receptor activity; IEA.		
Dr	GO; GO:0007186; P:G-protein coupled receptor protein signalin. .; IEA.		
Dr	InterPro; IPR000276; GPCR_Rhodopsin.		
Dr	Pfam; PF00001; 7tm.1; 1.		
Dr	PRINTS; PR00237; GPCR_Rhodopsin.		
Dr	PROSITE; PS00237; G-PROTEIN RECEPTOR FL1; 1.		
Dr	PROSITE; PS00262; G-PROTEIN RECEPTOR FL2; 1.		
Kw	Receptor; Transmembrane.		
Sc	SEQUENCE 263 AA; 30289 MW; F96BF023A5E1F1C1 CRC64;		
Query Match 32.2%; Score 596; DB 4; Length 263;			
Best Local Similarity 59.9%; Pred. No. 4; 5e-50;			
Matches 115; Conservative 23; Mismatches 54; Indels 0; Gaps 0;			
Qy	5	SCCRIBGDTISQVMPPLIIVAFVGLGNGVALCGFCFHMKTWKPSVYLFNLAVADFL	64
Db	17	NCCVFRDDFIVKVLPPVGLGFIFGLGNGLAWIFCFHLKSKWSSRIFLNLAVADFL	76
Qy	65	MICLIPFTDYLLRRHWAFGDIPCRVGLFTLAMNRAGSIVFLTVAAADRYFKVHHPH	124
Db	77	IICLIPFTDYLLRRHWAFGDIPCRVGLFTLAMNRAGSIVFLTVAAADRYFKVHHPH	136
Qy	125	NTISTRVAAGIVCTLMALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIMF	184
Db	137	NKISNRTAAISCLLWGITIGLTVHLLYTDMMTRNGDANLCSSFSICYTFRWDAMF	196
Qy	185	FMPLGIILFCS	196
Db	197	FELPLGIILFCS	208
RESULT 6			
Qy	Q8NGW4	PRELIMINARY;	PRT; 384 AA.
Id	Q8NGW4	PRELIMINARY;	PRT; 384 AA.
Ac	Q8NGW4	PRELIMINARY;	PRT; 384 AA.
Dt	01-JUN-2003	(TrEMBLrel. 24, Created)	
Dt	01-JUN-2003	(TrEMBLrel. 24, Last sequence update)	
Dt	01-OCT-2003	(TrEMBLrel. 25, Last annotation update)	
De	Nicotinic acid receptor.		
Os	Rattus norvegicus (Rat)		
Oc	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
Oc	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.		
Ox	NCBI_TaxID=10116;		
Rn	[1]		
Rp	SEQUENCE FROM N.A.		
Ra	Soga T., Kamihara M., Takasaki J., Matsumoto S., Saito T., Ohishi T.,		
Ra	Hiyama H., Matsuo A., Matsushima H., Furuichi K.,		
Rt	*Molecular identification of nicotinic acid receptor.;		
Rl	Biochem. Biophys. Res. Commun. 0-0-0(2003).		
Dr	EMBL; AB103062; BAC58009.1;		
Dr	GO; GO:0016021; C:integral to membrane; IEA.		
Dr	GO; GO:0004872; F:receptor activity; IEA.		
Dr	GO; GO:0001584; F:rhodopsin-like receptor activity; IEA.		
Dr	GO; GO:0007186; P:G-protein coupled receptor protein signalin. .; IEA.		
Dr	InterPro; IPR000276; GPCR_Rhodopsin.		
Dr	Pfam; PF00001; 7tm.1; 1.		
Dr	PRINTS; PR00237; GPCR_Rhodopsin.		
Dr	PROSITE; PS00237; G-PROTEIN RECEPTOR FL1; 1.		
Dr	PROSITE; PS00262; G-PROTEIN RECEPTOR FL2; 1.		
Kw	Receptor.		
Sc	SEQUENCE 360 AA; 41458 MW; 975BDEBCA448A6C5 CRC64;		
Query Match 46.5%; Score 862.5; DB 11; Length 360;			
Best Local Similarity 54.7%; Pred. No. 5.2e-76;			
Matches 175; Conservative 43; Mismatches 95; Indels 7; Gaps 4;			
Qy	3	NG-SCCRIBGDTISQVMPPLIIVAFVGLGNGVALCGFCFHM	

```
DT 01-OCT-2002 (TReMBLrel. 22, Created)
DT 01-OCT-2002 (TReMBLrel. 22, Last sequence update)
DT 01-JUN-2003 (TReMBLrel. 24, Last annotation update)
DE Seven transmembrane helix receptor.
OS Homo sapiens (Human)
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Suwa M., Sato T., Okouchi I., Arita M., Futami K., Matsumoto S.,
RA Tsubsumi S., Aburatani H., Asai K., Akiyama Y.;
RT "Genome-wide discovery and analysis of human seven transmembrane helix
RT receptor genes.";
RL Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AB065652; BAC05878.1; -.
DR GO; GO:0016021; C:integral to membrane; IEA.
DR GO; GO:0004872; F:receptor activity; IEA.
DR GO; GO:0001584; P:rhodopsin-like receptor activity; IEA.
DR GO; GO:0007186; P:G-protein coupled receptor protein signalin. .; IEA.
DR InterPro; IPR000276; GPCR_Rhodpsn.
DR Pfam; PF00001; 7tm_1; 1.
DR PRINTS; PR00237; GPCRRHODPSN.
DR PROSITE; PS00237; G_PROTEIN_RECP_F1_1; 1.
DR PROSITE; PS0262; G_PROTEIN_RECP_F1_2; 1.
KW Receptor; Transmembrane.
SQ SEQUENCE 384 AA; 41426 MW; 1C8455FED8085F36 CRC64;

Query Match 28.5%; Score 529; DB 4; Length 384;
Best Local Similarity 39.2%; Pred. No. 2.4e-43;
Matches 115; Conservative 48; Mismatches 108; Indels 22; Gaps 7;

QY 4 GSCCRIGDTISQVMPPLIVAFVGLGNGVALGCGFCHMTKPKSTVLYFLNLAADFL 63
DB 42 GPCHTSSSLVSAFAFLALALEFVLGNGSLALFICHTPTWTSNTVFLVSLVAADFL 101
QY 64 LMICLPFTDYLLRRRHAFGDPICRVGLFTLAMRAGSIVELTVVAADRYKVVHPHHA 123
DB 102 LISNPLRVDDYLLHETWRFGAACKVNLFMLSTRTASVFLTALANRYLKVQPHHV 161
QY 124 VNTISTRVAAGIVCTIMALVILGTVYLLENHLCVQE-TAVSCSEFIM----ESANGMHD 178
DB 162 LSRASVGAARVAGGLWGI-----LLNGHLLSTFGSPCLSYRVGTPKPSASLRWHQ 215
QY 179 IMFOLPEFMPGLIILFCSPKIVWSRRRQOLARQARKMKATFIMVAIVFICVLPSPV- 237
DB 216 ALYLEFFLPLALILFAIVSIGLTIRNR-GLGGQAGPORAMRVLAMVAVYVICFLPSII 274
QY 238 --SARLYFLMTVPSSA---CDPSVHGALHITLSFTYMSMLDPLVYFSSPSF 285
DB 275 FGMAWVAFWLSACKSLDLCTQLFPHG----SLAFTYLSVLDPLVLYCFSSPNF 323

RESULT 7
Q86WP7 PRELIMINARY; PRT; 384 AA.
AC Q86WP7;
DT 01-JUN-2003 (TReMBLrel. 24, Created)
DT 01-JUN-2003 (TReMBLrel. 24, Last sequence update)
DE Putative 5-oxo-ETE G-protein coupled receptor.
OS Homo sapiens (Human)
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Jones C.E., Holden S., Tenaillon L., Bhatia U., Seuwen K., Tranter P.,
RA Turner J., Kettle R., Bouhelal R., Charlton S., Nirmala N., Jarai G.,
RA Finan P.;
RT "Expression and Characterization of a 5-oxo-ETE, 8Z,11Z,14Z-
RT Eicosatetraenoic Acid Receptor Highly Expressed on Human Eosinophils
```

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RT and Neutrophils.";
RL Mol. Pharmacol. 63:471-477 (2003).
DR EMBL; AY158687; AAC17739.1; -.
DR GO; GO:0016021; C:integral to membrane; IEA.
DR GO; GO:0004872; F:receptor activity; IEA.
DR GO; GO:0001584; P:rhodopsin-like receptor activity; IEA.
DR GO; GO:0007186; P:G-protein coupled receptor protein signalin. .; IEA.
DR InterPro; IPR000276; GPCR_Rhodpsn.
DR Pfam; PF00001; 7tm_1; 1.
DR PRINTS; PR00237; GPCRRHODPSN.
DR PROSITE; PS00237; G_PROTEIN_RECP_F1_1; 1.
DR PROSITE; PS0262; G_PROTEIN_RECP_F1_2; 1.
KW Receptor.
SQ SEQUENCE 384 AA; 41412 MW; 0C5E35FED8085F36 CRC64;

Query Match 28.5%; Score 529; DB 4; Length 384;
Best Local Similarity 39.2%; Pred. No. 2.4e-43;
Matches 115; Conservative 48; Mismatches 108; Indels 22; Gaps 7;

QY 4 GSCCRIGDTISQVMPPLIVAFVGLGNGVALGCGFCHMTKPKSTVLYFLNLAADFL 63
DB 42 GPCHTSSSLVSAFAFLALALEFVLGNGSLALFICHTPTWTSNTVFLVSLVAADFL 101
QY 64 LMICLPFTDYLLRRRHAFGDPICRVGLFTLAMRAGSIVELTVVAADRYKVVHPHHA 123
DB 102 LISNPLRVDDYLLHETWRFGAACKVNLFMLSTRTASVFLTALANRYLKVQPHHV 161
QY 124 VNTISTRVAAGIVCTIMALVILGTVYLLENHLCVQE-TAVSCSEFIM----ESANGMHD 178
DB 162 LSRASVGAARVAGGLWGI-----LLNGHLLSTFGSPCLSYRVGTPKPSASLRWHQ 215
QY 179 IMFOLPEFMPGLIILFCSPKIVWSRRRQOLARQARKMKATFIMVAIVFICVLPSPV- 237
DB 216 ALYLEFFLPLALILFAIVSIGLTIRNR-GLGGQAGPORAMRVLAMVAVYVICFLPSII 274
QY 238 --SARLYFLMTVPSSA---CDPSVHGALHITLSFTYMSMLDPLVYFSSPSF 285
DB 275 FGMAWVAFWLSACKSLDLCTQLFPHG----SLAFTYLSVLDPLVLYCFSSPNF 323

RESULT 8
Q8TDS5 PRELIMINARY; PRT; 423 AA.
AC Q8TDS5;
DT 01-JUN-2002 (TReMBLrel. 21, Created)
DT 01-JUN-2002 (TReMBLrel. 21, Last sequence update)
DT 01-JUN-2003 (TReMBLrel. 24, Last annotation update)
DE Putative G-protein coupled receptor.
OS Homo sapiens (Human)
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Takeda S., Kadowaki S., Haga T., Takeasu H., Mitaku S.;
RT "Identification of G protein-coupled receptor genes from the human
RT genome sequence.";
RL Submitted (APR-2002) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RA MEDLINE=22191290; PubMed=12065583;
RA Hosoi T., Koguchi Y., Sugikawa E., Chikada A., Ogawa K., Tsuda N.,
RA Suto N., Tsunoda S., Taniguchi T., Ohnuki T.;
RT "Identification of a Novel Human Eicosanoid Receptor Coupled to
RT Gi/o.";
RL J. Biol. Chem. 277:31459-31465 (2002).
CC -!- SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN (BY SIMILARITY).
CC -!- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
DR EMBL; AB083630; BAB89343.1; -.
DR EMBL; AB083055; BAC11806.2; -.
DR GO; GO:0016021; C:integral to membrane; IEA.
DR GO; GO:0004872; F:receptor activity; IEA.
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Db 243 VLHIFQEFKSCSQVQOAIMRASDIAGSLTCLHSTLSPAIYCFSNPAFTSHYRKV-LKSLR 301
Qy 299 PKQPGHKTQRPPEMPSNL 318
Db 302 GR-----RKAESPSPDNL 314

RESULT 11
Q8R528 ID Q8R528 PRELIMINARY; PRT; 309 AA.
AC Q8R528
DT 01-JUN-2002 (TrEMBLrel. 21, Created)
DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Cysteinyln leukotriene 2 receptor.
GN CYSLTR2.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA Iehli S.;
RT "Mouse CysLT2 Gene.";
RL Submitted (MAR-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AB058930; BAB6881.1; -.
DR MGD; MGI:1917336; Cysltr2.
DR GO; GO:00301631; F:cysteinyln leukotriene receptor activity; IDA.
DR InterPro; IPR004071; Cysleuk_receptor.
DR InterPro; IPR000276; GPCR_Rhodpsn.
DR Pfam; PF00001; 7tm_1; 1.
DR PRINTS; PR01533; CYSLTRCPTR.
DR PROSITE; PS0237; GPCRHHODPSN.
DR PROSITE; PS0262; G_PROTEIN_RECP_F1_2; 1.
KW Receptor.
SQ SEQUENCE 309 AA; 35226 MW; 96FACC6B8AF96974 CRC64;

Query Match 20.3%; Score 375.5; DB 11; Length 309;
Best Local Similarity 32.7%; Pred. No. 2e-28;
Matches 96; Conservative 56; Mismatches 125; Indels 17; Gaps 7;

Qy 2 YNGSCRIEGDTISQVMPPLLIIVAFVLGALNGVALCGFCFHMKTWKPST---VYLENLA 58
Db 10 YSNRNCTIE-NFKKEFYIILIIFFWGLANGFISYVF---LQCKKSTSVNFMNLA 65
Qy 59 VADFLMCLPFRDYLLRRRHAFGDIPICRVGLFTLANRAGSIVFLTVAAADRYFKV 118
Db 66 TSDPLFISTLPFRADYIFRGSNWIFGDLACRVMSYSLVNMYSIYFLTVLSVRFATV 125
Qy 119 HPHAVNTISTRVAAAGIVCTLMALVILGTVYLLNHLVCQETAVSC-----ESFIMESA 173
Db 126 HPFMEFHTSVR-SAWILCGIWIWFIMASSALLVNGQEEKDNIISCLSPQKF--KSL 182
Qy 174 NGHNDIMFQLEFEMPLGIILFCSPKIVWSLRRQ--QLARQARKKATRTFMVAIVFIT 231
Db 183 LHMNHIAVAGFLPFFLTITCYLLIIRILKAIPESSGPAARHKATITIVIAMITLL 242
Qy 232 CYLPSVSRALYFLMTVPSSACDPSVHGALHITLFTYNSMLDPLVYFFSPSP 285
Db 243 CFLPYHALRTHLTVTDKSGOVHLKATVITLTMAANSFCNFPYIFAGEF 296

RESULT 12
Q8OQ04 ID Q8OQ04 PRELIMINARY; PRT; 390 AA.
AC Q8OQ04
DT 01-JUN-2002 (TrEMBLrel. 21, Created)
DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Type five-like somatostatin receptor.
OS Carassius auratus (Goldfish).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;
```

```
OC Cyprinidae; Carassius.
OX NCBI_TaxID=7957;
RN [1]
RP SEQUENCE FROM N.A.
RA Lin X.; Peter R.E.;
RT "Cloning and expression of a type five-like somatostatin receptor in goldfish.";
RL Submitted (APR-2000) to the EMBL/GenBank/DBJ databases.
CC -!- SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN (BY SIMILARITY).
CC -!- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
DR EMBL; AF252879; AAM18905.1; -.
DR GO; GO:0016021; C:integral to membrane; IEA.
DR GO; GO:0004872; F:receptor activity; IEA.
DR GO; GO:0001584; F:rhodopsin-like receptor activity; IEA.
DR GO; GO:0007186; P:G-protein coupled receptor protein signalin. .; IEA.
DR InterPro; IPR000276; GPCR_Rhodpsn.
DR InterPro; IPR001092; HLH_Basic.
DR Pfam; PF00001; 7tm_1; 1.
DR PRINTS; PR00237; GPCRHHODPSN.
DR PROSITE; PS0237; G_PROTEIN_RECP_F1_1; 1.
DR PROSITE; PS0262; G_PROTEIN_RECP_F1_2; 1.
DR PROSITE; PS00038; HLH_1; 1.
KW G-protein coupled receptor; Receptor; Transmembrane.
SQ SEQUENCE 390 AA; 44136 MW; EC12119A486CF9A8 CRC64;

Query Match 19.0%; Score 351.5; DB 13; Length 390;
Best Local Similarity 30.0%; Pred. No. 5.9e-26;
Matches 97; Conservative 71; Mismatches 134; Indels 21; Gaps 10;

Qy 3 NGSCRIEGDTISQVMPPLLIIVAFVLGALNGVALCGFCFHMKTWKPSTVYLFNLAVDF 62
Db 30 NGSSMAEDST--KILAVIYLVFVVGTLGNSLAIFVVLRYTKMTATNMYILNLAVADE 87
Qy 63 LLMICLPDPTDYLLRRRHAFGDIPICRVGLFTLANRAGSIVFLTVAAADRYFKVHPH 122
Db 88 LYILGLPFLTAHNM-LGVWPFNFCRLIMWIDSISQTSFTFCLTVNSIDRMAVHPTR 146
Qy 123 AVNTISTRVAAGIVCTLMALVILGTVYLLNHLVCQETAVSCSFIMESANGHD--IM 180
Db 147 SARWRPRVAKVINSVMWALSCLLTLPVII--YCDVQPELNTCNLSWEPDRDVWSTAFIL 204
Qy 181 P--OLEFMPGLIILFCSPKIVWSLR---RRQOLARQARM-KKATRTFMVAIVFITCVL 234
Db 205 YTAMLGFEFFPLMWITCLCYLLIVIKVKSASAGLSKGRSEKVKVTRMVIIVVFLCWL 264
Qy 235 P-SVSARLYFLMTVPSSACDPSVHGALHITLFTYNSMLDPLVYFFSPSPFKFNKL- 292
Db 265 PFPITINILNISTLPENSL---MTGIYFLTVILTVNSCANPLLYSLFSDNFKRSFQVQL 321
Qy 293 ---KICSLKPKQPGHKTQRPPE 312
Db 322 CIHKVGVNGHNGPGREHLRSQQ 344

RESULT 13
Q8BMJ5 ID Q8BMJ5 PRELIMINARY; PRT; 373 AA.
AC Q8BMJ5
DT 01-MAR-2003 (TrEMBLrel. 23, Created)
DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE P2Y purinoceptor 1.
GN P2RY1.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Body;
RX MEDLINE=22354683; PubMed=12466851;
RA The FANTOM Consortium,
RA The RIKEN Genome Exploration Research Group Phase I & II Team;
```


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OM protein - protein search, using sw model

Run on: June 30, 2004, 17:20:22 ; Search time 23 Seconds
(without alignments)
776.634 Million cell updates/sec

Title: US-10-076-260-2

Perfect score: 1853

Sequence: 1 MYN5CCRIEGDTISQVMPANSFQSGQWDPIVEMH 346

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- 1: /cgn2_6/ptodata/2/iaa/5A.COMB.pap.*
- 2: /cgn2_6/ptodata/2/iaa/5B.COMB.pap.*
- 3: /cgn2_6/ptodata/2/iaa/6A.COMB.pap.*
- 4: /cgn2_6/ptodata/2/iaa/6B.COMB.pap.*
- 5: /cgn2_6/ptodata/2/iaa/PTUS.COMB.pap.*
- 6: /cgn2_6/ptodata/2/iaa/backfiles.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	881.5	47.6	387	4	US-09-170-496D-222
2	880.5	47.5	387	4	US-09-170-496D-108
3	529	28.5	423	2	US-08-955-713-2
4	510	27.5	476	2	US-08-955-713-4
5	451.5	24.4	319	3	US-09-130-749-2
6	451.5	24.4	319	3	US-09-130-749-2
7	448.5	24.2	319	4	US-09-170-496D-60
8	448.5	24.2	319	4	US-09-170-496D-196
9	371	20.0	362	3	US-08-513-974B-374
10	362.5	19.6	373	3	US-08-513-974B-374
11	362.5	19.6	373	3	US-08-749-707-4
12	362.5	19.6	373	3	US-08-749-707-4
13	361.5	19.5	346	4	US-09-585-876-2
14	346.5	18.7	370	3	US-08-781-250-2
15	336	18.1	339	1	US-08-153-848-44
16	336	18.1	339	2	US-08-812-871-3
17	336	18.1	339	3	US-09-299-843A-44
18	336	18.1	339	4	US-09-299-843A-44
19	336	18.1	339	4	US-09-088-337B-44
20	336	18.1	339	5	US-09-170-496D-32
21	336	18.1	339	5	PCT-US93-11153-44
22	335	18.1	339	5	PCT-US95-07180-2
23	328.5	17.7	302	4	US-08-467-948A-30
24	328.5	17.7	302	3	US-08-467-948A-30
25	327	17.6	309	3	US-09-422-869-20
26	325	17.5	344	2	US-08-467-948A-8
27	325	17.5	344	3	US-08-467-947A-8

28	315.5	17.0	374	4	US-09-102-710B-3	Sequence 3, Appli
29	314	16.9	373	3	US-08-513-974B-373	Sequence 373, App
30	308	16.6	325	1	US-08-118-270-51	Sequence 51, Appl
31	308	16.6	325	5	PCT-US93-08528-51	Sequence 51, Appl
32	307	16.6	391	1	US-07-816-283-4	Sequence 4, Appli
33	307	16.6	391	1	US-08-417-103-4	Sequence 4, Appli
34	307	16.6	395	1	US-08-097-938-5	Sequence 5, Appli
35	307	16.6	395	1	US-08-097-938-5	Sequence 5, Appli
36	307	16.6	395	1	US-08-472-840-5	Sequence 5, Appli
37	307	16.6	395	2	US-08-472-840-5	Sequence 5, Appli
38	307	16.6	395	3	US-08-474-410-5	Sequence 5, Appli
39	306	16.5	398	1	US-08-097-938-6	Sequence 6, Appli
40	306	16.5	398	1	US-08-476-000-6	Sequence 6, Appli
41	306	16.5	398	1	US-08-472-840-6	Sequence 6, Appli
42	306	16.5	398	2	US-08-476-976-6	Sequence 6, Appli
43	306	16.5	398	3	US-08-474-410-6	Sequence 6, Appli
44	306	16.5	398	3	US-08-486-673B-6	Sequence 6, Appli
45	305.5	16.5	369	3	US-08-120-601B-9	Sequence 9, Appli

ALIGNMENTS

RESULT 1

US-09-170-496D-222

; Sequence 222, Application US/09170496D

; Patent No. 6555339

; GENERAL INFORMATION:

; APPLICANT: Behan, Dominic P.

; APPLICANT: Chalmers, Derek T.

; APPLICANT: Liaw, Chen W.

; TITLE OF INVENTION: No. 6555339-Endogenous, Constitutively Activated Human G Protein

; TITLE OF INVENTION: Receptors

; FILE REFERENCE: AREN-0040

; CURRENT APPLICATION NUMBER: US/09/170,496D

; CURRENT FILING DATE: 1998-10-13

; NUMBER OF SEQ ID NOS: 294

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 222

; LENGTH: 387

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-170-496D-222

Query Match 47.6%; Score 881.5; DB 4; Length 387;

Best Local Similarity 52.2%; Pred. No. 3.6e-68;

Matches 178; Conservative 49; Mismatches 107; Indels 7; Gaps 4;

QY 5 SCCRIEGDTISQVMPPLIIVAFVLGALNGVALCGCFHMTKTPKSTVYLFNLAVADFL 64

Db 17 NCCVFRDDPIAKVLPPVGLGFIFGLLGNGLALWIFCEHLKSKWSRIFLNLAVADFL 76

QY 65 MICLPRTDYLRHRHAFGDIPIKCVGLFTLAMRAGSIVELTVVAADRYPKVHPHAAV 124

Db 77 IICLPFYMDYVRRSDWKFGDIPCLVLFEAMNRQSGIIELTVAADVRYRVVHPHAAV 136

QY 125 NTISTRAAGVCTLMAVLIGTVYLLLENHLCVQETAVSCESPIMESANGWHDMFOLE 184

Db 137 NKUSNTAAIISCLWGITVGLTVHLLKKLLIQNGPANVCISFISCHTFPMHEAMFLE 196

QY 185 FFMPLGILFCSPKIVMSLRRLRRQALQARMKKATRTFMVAIVFITCYLPSVSARLYEL 244

Db 197 FLLPLGLILFCSARILWLSLRQ-QMDRHAKTKRAKTIIMVAIVFICFLSVVRIRIF 255

QY 245 WTPVSSA---CD--PSVHGALHITLSTYNNMMLDPLVYFSSPSPFKYKLCICSJUP 299

Db 256 WLLHTSGTQNCVVRSDLAFFITLSTYNNMMLDPLVYFSSPSPFPNFFSTLINRCLQR 315

QY 300 KQCHSKTQPEPWPISNLGRSCISVANSFQSDGQWDP 340

Db 316 KMTGEPPNNRSTSVELTGDPNKT-RGAPEALMANSGEFWSF 355

RESULT 2

US-09-170-496D-108
; Sequence 108, Application US/09170496D
; Patent No. 6555339
; GENERAL INFORMATION:
; APPLICANT: Behan, Dominic P.
; APPLICANT: Chalmers, Derek T.
; APPLICANT: Liaw, Chen W.
; TITLE OF INVENTION: No. 6555339-Endogenous, Constitutively Activated Human G Protein-
; FILE REFERENCE: AREN-0040
; CURRENT APPLICATION NUMBER: US/09/170,496D
; CURRENT FILING DATE: 1998-10-13
; NUMBER OF SEQ ID NOS: 294
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 108
; LENGTH: 387
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-170-496D-108

Query Match 47.5%; Score 880.5; DB 4; Length 387;
Best Local Similarity 52.2%; Pred. No. 4, 4e-68;
Matches 178; Conservative 49; Mismatches 187; Indels 7; Gaps 4;

Qy 5 SCRIEIGDITISQVMPPLIIVAFVGLGNGVALCGFCFHMKTWKPSTVYLFNLAVADFL 64
Db 17 NCCVFRDDFAKVLPPVGLGFIQGLGNGVALWIFCFHLSKWSKSRIFLNLAVADFL 76

Qy 65 MICLPEPTDYLLRRHWAFGDIICRVGLFTLAMNAGSIVLTVVADRYKVVHPHVA 124
Db 77 IICLPFVNDYVRRSDWNFGDIPCLVLFVAMNRQSGIIFLTVAVDYFRVVPHPHAL 136

Qy 125 NTISTRAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCSFIMESANGWHDIMFOL 184
Db 137 NKISNWTAAIISCLLWITVGLTWHLLKXKLLIQNGPANVCISICTFWHHEMELLE 196

Qy 185 FFMPLGIIICSFKIVWSLRRRQQLARQARMKATRFIMVVAIVITCYLPSVSARLYFL 244
Db 197 FLPLGLIILFCSARIINSLRQR-QMDRHAKIKRAITFMVVAIVITCYLPSVVRIRIF 255

Qy 245 WTVPSA--CD--PSVHGALHITLSTYNNMMLDPLVYFSSSPKFKYKLCISLKP 299
Db 256 WLLHTSQNCEVTRSDVLAFFITLSTYNNMMLDPLVYFSSSPKFKYKLCISLKP 315

Qy 300 KQFQHSKQTPPEMPISNLGRSCISVANFSQSDGQWDP 340
Db 316 KMTGEPDNNRSTSVELTGDPNKT-RGAPEALMANSGEFWSF 355

RESULT 3

US-08-955-713-2
; Sequence 2, Application US/08955713
; Patent No. 5955308
; GENERAL INFORMATION:
; APPLICANT: SATHE, GANESH
; APPLICANT: MOONEY, JEFFREY
; APPLICANT: BERGSMAN, DEREK
; APPLICANT: HALSEY, WENDY
; TITLE OF INVENTION: CDNA CLONE HE04D54 THAT ENCODES A HUMAN 7-TRANS
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: RATNER & PRESTIA
; STREET: P.O. BOX 980
; CITY: VALLEY FORGE
; STATE: PA
; COUNTRY: USA
; ZIP: 19482
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0

; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/955,713
; FILING DATE: 23-OCT-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/050,124
; FILING DATE: 18-JUN-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: PRESTIA, PAUL F
; REGISTRATION NUMBER: 23,031
; REFERENCE/DOCKET NUMBER: GH-70087
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 610-407-0700
; TELEFAX: 610-407-0701
; TELEX: 846169
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 423 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-955-713-2

Query Match 28.5%; Score 529; DB 2; Length 423;
Best Local Similarity 39.2%; Pred. No. 8, 1e-38;
Matches 115; Conservative 48; Mismatches 108; Indels 22; Gaps 7;

Qy 4 GSCRIEIGDITISQVMPPLIIVAFVGLGNGVALCGFCFHMKTWKPSTVYLFNLAVADFL 63
Db 81 GPCHZTSSSVSAFLAPILALEFVLGVLGNSLALFIFCIHTRPMTSNTVFLVSLVAADFL 140

Qy 64 LMICLPEPTDYLLRRHWAFGDIICRVGLFTLAMNAGSIVLTVVADRYKVVHPHVA 123
Db 141 LISLPLRVYDYLHETWRFGAACKVNLFMLSNTASVVFELTAIALNRYLKVQVPHV 200

Qy 124 VNTISTRAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCSFIM--ESANGWHD 178
Db 201 LSRASVGAARVAGLWGI-----LLNGHLLISTFGSCLSYRVTGTPSASLRWHQ 254

Qy 179 IMFOLPEFMPGLIILFCSFKIVWSLRRRQQLARQARMKATRFIMVVAIVITCYLPSV- 237
Db 255 ALYLLEFPLALILFAIVSIGLIRNR-GLGQAGQORAMRVLMVAVVITCFLPSII 313

Qy 238 --SARLYFLVTPSSA---CDPSVHGALHITLSTYNNMMLDPLVYFSSSPF 285
Db 314 FGMASVAFWLSACRSLOLCTQLFHHG-----SLAFTYLSVLDPLVYCFSSPNF 362

RESULT 4

US-08-955-713-4
; Sequence 4, Application US/08955713
; Patent No. 5955308
; GENERAL INFORMATION:
; APPLICANT: SATHE, GANESH
; APPLICANT: MOONEY, JEFFREY
; APPLICANT: BERGSMAN, DEREK
; APPLICANT: HALSEY, WENDY
; TITLE OF INVENTION: CDNA CLONE HE04D54 THAT ENCODES A HUMAN 7-TRANS
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: RATNER & PRESTIA
; STREET: P.O. BOX 980
; CITY: VALLEY FORGE
; STATE: PA
; COUNTRY: USA
; ZIP: 19482
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:

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; APPLICATION NUMBER: US/08/955,713
; FILING DATE: 23-OCT-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/050,124
; FILING DATE: 18-JUN-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: PRESTIA, PAUL F
; REGISTRATION NUMBER: 23,031
; REFERENCE/DOCKET NUMBER: GH-70087
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 610-407-0700
; TELEFAX: 610-407-0701
; TELEX: 846169
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 476 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-955-713-4

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Query Match      27.5%; Score 510; DB 2; Length 476;
Best Local Similarity 39.6%; Pred. No. 4e-36;
Matches 110; Conservative 47; Mismatches 101; Indels 20; Gaps 6;

QY 18 MEPLIVAFVIGALNGVALGCFCHMKWKPKSTVYLENLAVADELLMCLPRTDYLYR 77
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 6 LAPILALREVLGLVNSLALFICHTREPTWNTVFLVSLVADFLIISNLPURDYILL 65

QY 78 RRHAFGDIPCRVGLFTLANNRAGSIVFLTVVAADRYFKVHPHHAVENTISTRVAGIWC 137
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 66 HETRFGAACKVNLFMLSTNRKASVVFALTALNRYLKVKVXPHHVLNEASVGAKARVVG 125

QY 138 TLWALVILGTVYLLLENHLCVQETAVSCSPFM-----ESANGWHDIMFPGIIL 193
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 126 GIWVILLINGKLLNTF-----SGPCLSYRVGTPKPSASLRHQALYLLFELFLALIL 180

QY 194 FCSEKIVWSLRRQRLARQARKKATRFIMWVAIVFITCYLPSV---SARLYELWTVPS 250
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 181 FAIVSIGLTIRNR-GLGQAGPQRAVRVLAIVVAVYITCYLPSVIFEGASWVAFWLSACR 239

QY 251 A---CDPSVHGALHITLSTYNNMSMLDPLVYFFSPSF 285
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 240 SLDLCTQLFHG----SLAFTYLSVLDPLVLYCFSSPFE 273

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RESULT 5
US-09-130-749-2
; Sequence 2, Application US/09130749
; Patent No. 6031090
; GENERAL INFORMATION:
; APPLICANT: SHABON, USMAN
; ELISHOURBAGY, NABIL
; TITLE OF INVENTION: MOLECULAR CLONING OF A 7TM
; RECEPTOR (GPR31A)
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: RATNER & PRESTIA
; STREET: P.O. Box 980
; CITY: Valley Forge
; STATE: PA
; COUNTRY: USA
; ZIP: 19482
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/130,749
; FILING DATE: 07-Aug-1998

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; CLASSIFICATION: UNKNOWN
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: <Unknown>
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: PRESTIA, PAUL F
; REGISTRATION NUMBER: 23,031
; REFERENCE/DOCKET NUMBER: GP-70513
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 610-407-0700
; TELEFAX: 610-407-0701
; TELEX: 846169
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 319 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:
; US-09-130-749-2

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Query Match      24.4%; Score 451.5; DB 3; Length 319;
Best Local Similarity 34.4%; Pred. No. 2.8e-31;
Matches 101; Conservative 61; Mismatches 121; Indels 11; Gaps 5;

QY 7 CRIBGTISQVMPPLIIVAFVIGALNGVALGCFCHMKWKPKSTVYLFNLAADFLMI 66
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 6 CSAPSTVWATAVGVLLGLECGLLGNVAVALWTFLEFRVVKPKYAVVYLLNALADLLAA 65

QY 67 CLPFTDYLYRRRHMAFGDIPCRVGLFTLANNRAGSIVFLTVVAADRYFKVHPHHAVENT 126
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 66 CLPFLAFLSLQAMHLGRVGCWALRFLDLSKSVGMFLAAVALDKYLRVHPRKLVNL 125

QY 127 ISTRVAAIGVCTIMWALVILGTVYLLLENHLCVQETAVSCSFIMESANG----WHDIMF 181
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 126 LSPQALGVSLVLLMWALTCPGLLISE--AAQNSTRCHSF-YSRADGGSFIWQALS 182

QY 182 QLEFFWPLGIILFCSEKIVWSLRR--QQLARQARKKATRFIMWVAIVFITCYLPSVSAR 240
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 183 CLQFVLPFLGVFCNAGIIRALOKRLEPEKOPKLQRAQALVTVLVVLFALCFLPCFLAR 242

QY 241 --LYELWTVPSACDPSVHGHILHITLSTYNNMSMLDPLVYFFSPSPFPKYNKL 292
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 243 VLMHIFQNLGSCALCAVAHTSDVTGSLTYLHSLVLPVWYCFSSPTFRSSRRV 296

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RESULT 6
US-09-130-749-2
; Sequence 2, Application US/09130749
; Patent No. 6031344
; GENERAL INFORMATION:
; APPLICANT: SHABON, USMAN
; ELISHOURBAGY, NABIL
; TITLE OF INVENTION: MOLECULAR CLONING OF A 7TM
; RECEPTOR (GPR31A)
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: RATNER & PRESTIA
; STREET: P.O. Box 980
; CITY: Valley Forge
; STATE: PA
; COUNTRY: USA
; ZIP: 19482
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/130,749
; FILING DATE: 07-Aug-1998
; CLASSIFICATION:

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Query Match 20.0%; Score 371; DB 3; Length 362;
Best Local Similarity 29.1%; Pred. NO. 2.6e-24;
Matches 95; Conservative 60; Mismatches 128; Indels

Db 54 LPVAVILVFIIGLNSVAVIMFVPMKPSGIVYMENLALADFLVLTLPALIFYFN 113
 QY 78 RSHWAFGDI PCRVGLFTLAMNAGSIVELTVVADRYKVVPHAVNTISTRVAAGIVC 137
 Db 114 KIDWIFGAMCKLQRFIFHVNLYGSLFELTCSAHRYSGVVYPLKSLGRLKKNNAVYISV 173
 QY 138 TLWALVILGTVYLLNHLVCQET-AVSC-----ESFIMESANGWHDIMFQLEFFM 187
 Db 174 LWLVIVVVGISPLFVSGTGIRKNKTIITCYDTTSDBYLRSFYISM-----CTTVAMFCV 228
 QY 188 PLGIILFCFVKIWSLRRRQOLARQARMKATRFIMVVAIVFITCYLP-----SVSAR 240
 Db 229 PLVLILGCGVILVRLAIYK-DLDNSPLRRKSYLVIIIVTFVAVSYIPFHVMTMNLAR 287
 QY 241 LVFLMTVPSSACDPSVHGALHITLSFTYMNMLDPLVYVFSPPKFKYNKLIKCSLKPK 300
 Db 288 LDF-QTPMCAFNDRVATYQVTRGLASINSCVDILYFLAGDTFRRLSR-----337
 QY 301 QPGHKTQRPBEMPISNIGRRSCISVANSFQSQD 335
 Db 338 --ATRKASRRSEANLQSKSEDMTNILSEFKONGD 370

RESULT 11

US-08-749-707-4
 ; Sequence 4, Application US/08749707
 ; Patent No. 6063582
 ; GENERAL INFORMATION:
 ; APPLICANT: Conley, Pamela B.
 ; APPLICANT: Jantzen, Hans-Michael
 ; TITLE OF INVENTION: NOVEL PURINERGIC RECEPTOR
 ; NUMBER OF SEQUENCES: 14
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: MORGAN, LEWIS & BOCKIUS LLP
 ; STREET: 1800 M Street, N.W.
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: USA
 ; ZIP: 20036-5869
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/749,707
 ; FILING DATE: 15-NOV-1996
 ; CLASSIFICATION: 536
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Adler, Reid G.
 ; REGISTRATION NUMBER: 30,988
 ; REFERENCE/DOCKET NUMBER: 044481-5010-01-US
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 202-467-7000
 ; TELEFAX: 202-467-7176
 ; INFORMATION FOR SEQ ID NO: 4:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 373 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS:
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-08-749-707-4

Query Match 19.6%; Score 362.5; DB 3; Length 373;
 Best Local Similarity 27.5%; Pred. No. 1.5e-23;
 Matches 92; Conservative 68; Mismatches 140; Indels 35; Gaps 7;
 QY 18 MPPLIIVAFVILGALNGVALCGFCFHMKTWKPSTVYLFNLAVADFLMCLPFTDYLR 77
 Db 54 LPVAVILVFIIGLNSVAVIMFVPMKPSGIVYMENLALADFLVLTLPALIFYFN 113
 QY 78 RSHWAFGDI PCRVGLFTLAMNAGSIVELTVVADRYKVVPHAVNTISTRVAAGIVC 137

Db 114 KIDWIFGAMCKLQRFIFHVNLYGSLFELTCSAHRYSGVVYPLKSLGRLKKNNAVYISV 173
 QY 138 TLWALVILGTVYLLNHLVCQET-AVSC-----ESFIMESANGWHDIMFQLEFFM 187
 Db 174 LWLVIVVVGISPLFVSGTGIRKNKTIITCYDTTSDBYLRSFYISM-----CTTVAMFCV 228
 QY 188 PLGIILFCFVKIWSLRRRQOLARQARMKATRFIMVVAIVFITCYLP-----SVSAR 240
 Db 229 PLVLILGCGVILVRLAIYK-DLDNSPLRRKSYLVIIIVTFVAVSYIPFHVMTMNLAR 287
 QY 241 LVFLMTVPSSACDPSVHGALHITLSFTYMNMLDPLVYVFSPPKFKYNKLIKCSLKPK 300
 Db 288 LDF-QTPMCAFNDRVATYQVTRGLASINSCVDILYFLAGDTFRRLSR-----337
 QY 301 QPGHKTQRPBEMPISNIGRRSCISVANSFQSQD 335
 Db 338 --ATRKASRRSEANLQSKSEDMTNILSEFKONGD 370

RESULT 12
 US-09-947-922-4
 ; Sequence 4, Application US/09947922
 ; Patent No. 6680373
 ; GENERAL INFORMATION:
 ; APPLICANT: Conley, Pamela B.
 ; APPLICANT: Jantzen, Hans-Michael
 ; TITLE OF INVENTION: NOVEL PURINERGIC RECEPTOR
 ; NUMBER OF SEQUENCES: 14
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: MORGAN, LEWIS & BOCKIUS LLP
 ; STREET: 1800 M Street, N.W.
 ; CITY: Washington
 ; STATE: D.C.
 ; COUNTRY: USA
 ; ZIP: 20036-5869
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/947,922
 ; FILING DATE: 07-Sep-2001
 ; CLASSIFICATION: <Unknown>
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/749,707
 ; FILING DATE: 15-NOV-1996
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Adler, Reid G.
 ; REGISTRATION NUMBER: 30,988
 ; REFERENCE/DOCKET NUMBER: 044481-5010-01-US
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 202-467-7000
 ; TELEFAX: 202-467-7176
 ; INFORMATION FOR SEQ ID NO: 4:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 373 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: <Unknown>
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; SEQUENCE DESCRIPTION: SEQ ID NO: 4:
 ; US-09-947-922-4

Query Match 19.6%; Score 362.5; DB 4; Length 373;
 Best Local Similarity 27.5%; Pred. No. 1.5e-23;
 Matches 92; Conservative 68; Mismatches 140; Indels 35; Gaps 7;
 QY 18 MPPLIIVAFVILGALNGVALCGFCFHMKTWKPSTVYLFNLAVADFLMCLPFTDYLR 77
 Db 54 LPVAVILVFIIGLNSVAVIMFVPMKPSGIVYMENLALADFLVLTLPALIFYFN 113

```

QY 78 RHWAFGDIDCFRCVCEFTLANNRAGSIVFLTWVAADRYEKVHPHHAVNTISTRVAAIGVC 133
Db 114 KTDWIFGDAMCKLQRETFHVNLYGSILFTICSAHRYSGVVYPLKSLGRLKKKNVYTSV 173
QY 138 TLWALVILGTWYLLLEHNLCLVOET-AVSC-----ESFIMESANGWHDIMFQLEPFM 187
Db 174 LVMLIVVVGISPIILFYSGTGIRKKNKTICYDTSDEYLRSFYISM-----CTTVAMECV 228
QY 188 PLGILPCSKFIWLSLRRQOLARQARKKATRFIMVVAIVFTTCYLP-----SVGAR 240
Db 229 PLVLILGCGLIVRALYIK-DLDNSPLRKRSITYLIIIVLTWFAVSYIPFHVMKTMNLRAR 287
QY 241 LYPLWTWVSSACDPSVHGALHITLSFTYMNMLDPLVYVFSFSPSPKPFVNLKIKCSLKPK 300
Db 288 LDF-OTPEMCAFNDRVATYQVTVGLASLNSCVDPLFLAGDIFRRLSR----- 337
QY 301 QPGHSKTQRPPEMPISNLGRRCISVANSFQSQSD 335
Db 338 --ATRKASRRSEANLQSKSEDMTILNLSFEKQNGD 370

RESULT 13
US-09-585-876-2
; Sequence 2, Application US/09585876
; Patent No. 6586205
; GENERAL INFORMATION:
; APPLICANT: Glucksmann, Maria Alexandra
; APPLICANT: Silos-Santiago, Immaculada
; TITLE OF INVENTION: 43239, A NO. 6586205el GPCR-Like Molecule and
; TITLE OF INVENTION: Uses Thereof
; FILE REFERENCE: 5800-88
; CURRENT APPLICATION NUMBER: US/09/585,876
; CURRENT FILING DATE: 2000-06-01
; EARLIER APPLICATION NUMBER: 60/182,061
; EARLIER FILING DATE: 2000-02-11
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 346
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-585-876-2

```

RESULT 14

US-08-781-250-2
: Sequence 2, Application US/08781250
: Patent No. 6010877
: GENERAL INFORMATION:
: APPLICANT: Sathe, Ganesh
: APPLICANT: Van Horn, Stephanie
: APPLICANT: Bergsma, Derk
: APPLICANT: Mao, Joyce Yue
: TITLE OF INVENTION: cDNA CLONE HB8CS41 THAT ENCODES A NOVEL 7-TRANSMEMBRAN
: NUMBER OF SEQUENCES: 2
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: SmithKline Beecham
: STREET: 709 Swedeland Road
: CITY: King of Prussia
: STATE: PA
: COUNTRY: USA
: ZIP: 19406
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Diskette
: COMPUTER: IBM Compatible
: OPERATING SYSTEM: DOS
: SOFTWARE: FASTSEQ for Windows Version 2.0
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08781,250
: FILING DATE: 10-JAN-1997
: CLASSIFICATION: 514
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER:
: FILING DATE:
: ATTORNEY/AGENT INFORMATION:
: NAME: William T. Han,
: REGISTRATION NUMBER: 34,344
: REFERENCE/DOCKET NUMBER: ATC50043
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 610-270-5219
: TELEFAX: 610-270-4060
: TELEX:
: INFORMATION FOR SEQ ID NO: 2:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 370 amino acids
: TYPE: amino acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: protein
US-08-781-250-2

RESULT 14

RESULT 15

US-08-153-848-44
Sequence 44, Application US/08153848
Patent No. 5753804
GENERAL INFORMATION:
APPLICANT: Godiska, Ronald
APPLICANT: Gray, Patrick W.
APPLICANT: Schweikart, Vicki L.
TITLE OF INVENTION: No. 5759804e1 Seven Transmembrane Receptors
NUMBER OF SEQUENCES: 64
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &
ADDRESSEE: Bicknell
STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: USA
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/153,848
FILING DATE:
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/977,452
FILING DATE: 17-NOV-1992
ATTORNEY/AGENT INFORMATION:
NAME: No. 5759804and, Greta E.
REGISTRATION NUMBER: 35,302
REFERENCE/DOCKET NUMBER: 31794
TELECOMMUNICATION INFORMATION:
TELEPHONE: (312) 474-6300
TELEFAX: (312) 474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 44:
SEQUENCE CHARACTERISTICS:
LENGTH: 339 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-153-848-44

Query Match 18.1%; Score 336; DB 1; Length 339;
Best Local Similarity 30.5%; Pred.No. 2.5e-21;
Matches 97; Conservative 54; Mismatches 153; Indels 14; Gaps 9;

QY	7	CRLEGDTISQVMPPELLIVAFVLGNLGNVALCGFCFHKMTKPSPTVYLENLAVADFLIMI	66
Db	23	CGQETPLENMLFASFYLLDFILALVGNTLALWLFIRDHKSGTPANVFIMHLAVADLSCVL	82
QY	67	CLFPRDYLRRRHWRGDI PCRVGLFTLAMNRAGSIVFLTVVAADRYKVVHPPHVAVT	126
Db	83	VLTRLVYHFSGNMPGEGEACRLTGFLYINWYASIVFLTCISADRFIAVHP---VKS	139
QY	127	ISTR--VAAGIVCT-LNALVILGVYLLLENHLVCQETAVSCSFIMESANGWHDIMFQL	183
Db	140	LKLRPLVYAHACAFVWVAVAMAPLIVSPQVTQNTVTVCLQLYREKASHHALVSLAV	199
QY	184	EFFMPLGILIFCSFKIVWSLRRQQLARQPMK-KATFTMVVAIVITCYLP-SVSARL	241
Db	200	AFTFPFTTTCYLLIIRSL--RQGLRVEKRLKTKAVRMIAIVLAIFLVCFVPHVNRSV	257
QY	242	YFL-WTVFSSACDPSVHGAL--HITLSFTYWNMLDPLVYVFPSPPKFYNKIKICSLK	298
Db	258	YVLHYRSHGASCATORILANRITSCLTSLNGALDIPIMFFVFAEKPRHALCNL-LGKR	316
QY	299	PKQFGHKTQRPMPIS	316

Db 317 LKGPFPSPFEGCKTNESSLS 334

Search completed: June 30, 2004, 17:24:28
Job time : 24 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: June 30, 2004, 17:19:42 ; Search time 21 Seconds
(without alignments)
1584.870 Million cell updates/sec

Title: US-10-076-260-2

Perfect score: 1853

Sequence: 1 MYNGSCCRIRGDTISQWMP2.....ANSFQSQSDGQWDPHIVEHE 346

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 283366 seqs, 96191526 residues

Total number of hits satisfying chosen parameters: 283366

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

PIR 78:*

1: PIR1:*

2: PIR2:*

3: PIR3:*

4: PIR4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB ID	Description
1	880.5	47.5	387	2 I69202	G protein-coupled
2	364	19.6	362	2 S33733	G protein-coupled
3	362.5	19.6	373	2 JC4162	P2r receptor - bov
4	354	19.1	373	2 JC4737	G protein-coupled
5	343.5	18.5	370	2 JC5549	heptahelical P2Y5-
6	339	18.3	308	2 T05241	G protein-coupled
7	324	17.5	344	2 T09508	intron 17 purinerg
8	320	17.3	373	2 A47556	ATP receptor P2u -
9	310.5	16.8	420	2 I51667	thrombin receptor
10	309.5	16.7	363	2 I57940	somatostatin recep
11	307	16.6	391	2 C41795	somatostatin recep
12	305.5	16.5	391	2 A41795	somatostatin recep
13	305.5	16.5	391	2 A39297	somatostatin recep
14	304.5	16.4	359	2 S15403	angiotensin II rec
15	302.5	16.3	369	2 B41795	somatostatin recep
16	302	16.3	364	2 JQ1488	somatostatin recep
17	302	16.3	399	2 I48705	bradykinin B2 rece
18	300.5	16.2	369	2 A45291	proteinase activat
19	300.5	16.2	369	2 D41795	somatostatin recep
20	300	16.2	328	2 I55450	G protein-coupled
21	300	16.2	384	2 A47249	brain-specific som
22	300	16.2	428	2 A44021	somatostatin recep
23	299.5	16.2	369	2 JC2083	somatostatin recep
24	299	16.1	388	2 JN0635	somatostatin recep
25	298.5	16.1	418	2 A46226	somatostatin recep
26	298.5	16.1	432	2 A43448	thrombin receptor
27	298	16.1	428	2 S30508	probable G protein
28	297	16.0	397	2 S66518	proteinase-activat
29	296.5	16.0	346	2 S29248	somatostatin recep

30 296 16.0 359 2 A48857 angiotensin II rec
31 296 16.0 375 2 A54946 P-2U nucleotide re
32 295 15.9 384 2 JC4629 somatostatin recep
33 294 15.9 372 2 J38532 delta opioid recep
34 292.5 15.8 361 2 JC5653 G protein-coupled
35 292 15.8 371 2 JC5498 G protein-coupled
36 291.5 15.7 359 2 S44425 angiotensin II rec
37 291.5 15.7 359 2 JC2134 angiotensin II rec
38 290 15.7 372 2 S34592 delta opioid recep
39 289 15.6 359 2 JC1104 angiotensin II rec
40 288 15.5 355 2 A45177 chemokine (C-C) re
41 288 15.5 372 2 B48227 delta opioid recep
42 287.5 15.5 365 2 S68208 G protein-coupled
43 287.5 15.5 371 2 JC5796 probable chemotatr
44 286.5 15.5 359 2 JH0621 angiotensin II rec
45 286.5 15.5 423 2 JC7677 allatostatin recep

ALIGNMENTS

RESULT 1

I69202

G protein-coupled receptor HM74 - human

C:Species: Homo sapiens (man)

C>Date: 12-Aug-1996 #sequence_revision 12-Aug-1996 #text_change 19-May-2000

C:Accession: I69202

R:Nomura, H.; Nielsen, B.W.; Matsushima, K.

Int. Immunol. 5, 1239-1249, 1993

A:Title: Molecular cloning of cDNAs encoding a LD78 receptor and putative leukocyte che

A:Reference number: I54751; MUID:94092629; PMID:7505609

A:Accession: I69202

A:Status: preliminary; translated from GB/EMBL/DBJ

A:Molecule type: mRNA

A:Residues: 1-387 <RES>

A:Cross-references: GB:D10923; NID:g219866; PIDN:BAA01721.1; PID:g219867

C:Genetics:

A:Gene: HM74

C:Superfamily: G protein-coupled receptor 4

Query Match 47.5%; Score 880.5; DB 2; Length 387;
Best Local Similarity 52.2%; Pred. No. 5.4e-74;
Matches 178; Conservative 49; Mismatches 107; Indels 7; Gaps 4;

QY 5 SCRIEIGDTISQWMPPLIVAFVVGALGNGVALGCFCHMKTKPSTVYLFNLAADPL 64
Db 17 NCCVFRDFFIAKVLPPVLGLEIFGLLGNGLALWFCFLKSKSSRIPLFNLAADFL 76
QY 65 MICLPFRDYYLRRRHAFGDIPCKVGLFTLAMNRAGSIVELTVVAAADRYKVVPHRAV 124
Db 77 IICLPFVMDYYVRSNDNFQDIPCELVLFPMAMNRQSSIIELTVVAVDRYFVVPHHAL 136
QY 125 NTISTRVAAGIVCTVWALVILGTVYLLLENHLCVQETAVSCESFIMESANGHDMFOLB 184
Db 137 NKISNMTAAIICLLMGITVGLTVHLLKLLIQNGPANVCISFISICTFRWHEAMFLLE 196
QY 185 FFWPLGILICSFYIVMSLRROQLARQAKKATRTMTVAIVITFCYLSVSARLYEL 244
Db 197 FLPLGILICFSARIITWSLRQR-QMDRHAKIKRAITFMVVAIVFVIFLPSVVVRIRIF 255
QY 245 WTVPSA---CD--PSVHGALHITLSFTYNNMLDPLVYFSSPSFPKFNKLKICSLKP 299
Db 256 WLLHTSTQNCVRSVDLAFITLSFTYNNMLDPVVYFSSPSFPNFFSTLINRCLOR 315
QY 300 KQPGHSKTQPERPMPSINLGRSCISVANFSQSDGQWD 340
Db 316 KMTGEPDNNSTSVELTGDPNKT-RGAPEALMANSGRFWSP 355

RESULT 2

S33733

G protein-coupled receptor - chicken

C:Species: Gallus gallus (chicken)

C>Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 24-Sep-1999
C/Accession: S33733
R/Species: Bos primigenius taurus (cattle)
R/Author: T.E.; Simon, J.; Kriehke, B.J.; Bateson, A.N.; Smart, T.G.; King, B.F.; Burnstock
R/Title: Cloning and functional expression of a brain G-protein-coupled ATP receptor.
A/Reference number: S33733; MUID:93285340; PMID:8508924
A/Accession: S33733
A/Status: Preliminary
A/Molecule type: mRNA
A/Residues: 1-362 <WEB>
A/Cross-references: EMBL:X73268; NID:g935084; PIDN:CAA51716.1; PID:g935085
C/Superfamily: ATP receptor P2u
C/Keywords: G protein-coupled receptor; transmembrane protein

Query Match 19.6%; Score 364; DB 2; Length 362;
Best Local Similarity 29.1%; Pred. No. 4.7e-26;
Matches 95; Conservative 58; Mismatches 130; Indels 44; Gaps 7;

QY 18 MPPLIVAFVLGALGVGALGFCFHMKTWKESTVYVLENLAVADFLMLICLPFRDYLYR 77
Db 43 LPTVYLVFIIGFLGNSVAIMFWFVHMKPWSGISVYMFNLADFLYVLTLPALIPYFN 102
QY 78 RHHAFGDI PCRVGLFTLAMNRAGSIVFLTVVAAADRYKVVHPHVAVTISTRVAGIVC 137
Db 103 KTDWIFGDVWCKLQRFIFHNLYGSLFILTCTISAHRYSGVYVFLKSLGRKKKNVYVSS 162
QY 138 TLWALVIL-----GTVLLLENHLCVQET-AVSC-----ESFTMESANGMHDIMFQLEP 178
Db 163 LWALWAVIAPIILFYSGTGVRRNKTIICYDTTADYLSYFVYGMCTTVFN----- 214
QY 179 IMFQLEFMPGILIFCFCFKVWSLRRRQQLARQARKKATRFIMVVAIVFTICVLP--- 235
Db 215 -----FCIPFVLGCVGLIVKALYK-DLDNSPLRKSIVLVIIVTFVAVSVLPFHV 267
QY 236 ----SVSARLYFLMTVPSSACDPSVHGALHTLSTFYNNMMLDPLVYFFSPSPKPYNK 291
Db 268 MKTLNLRLRDLF-QTPQCAFNDRVYATYQVTRGLASLNSCVDPILYFLAGDTFRRLSR 326
QY 292 LXICSLKPKQGHKTKQRPPEMPSINL 318
Db 327 ATRKSRSEPE-NVQSKSEMTNLIL 351

RESULT 3
JC4162
P2Y receptor - bovine
C/Species: Bos primigenius taurus (cattle)
C/Date: 12-Oct-1995 #sequence_revision 10-Nov-1995 #text_change 24-Sep-1999
C/Accession: JC4162
R/Henderson, D.J.; Elliot, D.G.; Smith, G.M.; Webb, T.E.; Dainty, I.A.
Biochem. Biophys. Res. Commun. 212, 648-656, 1995
A/Title: Cloning and characterisation of a bovine P2Y receptor.
A/Reference number: JC4162; MUID:95352058; PMID:7626079
A/Accession: JC4162
A/Molecule type: mRNA
A/Residues: 1-373 <HEN>
A/Cross-references: EMBL:X87628; NID:g1032484; PIDN:CAA60958.1; PID:g1032485
A/Experimental source: aortic endothelial cell
C/Genetics:
A/Gene: bomp2Y
C/Superfamily: ATP receptor P2u
C/Keywords: glycoprotein; phosphoprotein; receptor; transmembrane protein
F/52-77/Domain: transmembrane #status predicted <TM1>
F/88-111/Domain: transmembrane #status predicted <TM2>
F/124-150/Domain: transmembrane #status predicted <TM3>
F/171-191/Domain: transmembrane #status predicted <TM4>
F/214-237/Domain: transmembrane #status predicted <TM5>
F/261-282/Domain: transmembrane #status predicted <TM6>
F/305-328/Domain: transmembrane #status predicted <TM7>
F/11, 27, 113, 197/Binding site: carboxylate (Asn) (covalent) #status predicted
F/258/Binding site: phosphate (Ser) (covalent) (by protein kinase A) #status predicted

Query Match 19.6%; Score 362.5; DB 2; Length 373;

Best Local Similarity 27.5%; Pred. No. 6.7e-26;
Matches 92; Conservative 68; Mismatches 140; Indels 35; Gaps 7;

QY 18 MPPLIVAFVLGALGVGALGFCFHMKTWKESTVYVLENLAVADFLMLICLPFRDYLYR 77
Db 54 LPAVVLPIIIGFLGNSVAIMFWFVHMKPWSGISVYMFNLADFLYVLTLPALIPYFN 113
QY 78 RHHAFGDI PCRVGLFTLAMNRAGSIVFLTVVAAADRYKVVHPHVAVTISTRVAGIVC 137
Db 114 KTDWIFGDVWCKLQRFIFHNLYGSLFILTCTISAHRYSGVYVFLKSLGRKKKNVYVSS 173
QY 138 TLWALVILGTVYVLLLENHLCVQET-AVSC-----ESFTMESANGMHDIMFQLEP 187
Db 174 LWLIVVVGISPIILFYSGTGVRRNKTIICYDTTADYLSYFVYGMCTTVFN----- 228
QY 188 FLGIILFCSEKIVWSLRRRQQLARQARKKATRFIMVVAIVFTICVLP-----SVSAR 240
Db 229 FLVLLIGCVGLIVKALYK-DLDNSPLRKSIVLVIIVTFVAVSVIPFHVMTNLRAR 287
QY 241 LYFLMTVPSSACDPSVHGALHTLSTFYNNMMLDPLVYFFSPSPKPYNKIKICSLKPK 300
Db 288 LDF-QTPQCAFNDRVYATYQVTRGLASLNSCVDPILYFLAGDTFRRLSR----- 337
QY 301 QPHGSKTKQRPPEMPSINLGRSSCISVANSFQSQSD 335
Db 338 --ATRKSRSEPEANLQSKSEMTNLILSEFKQNGD 370

RESULT 4
JC4737
G protein-coupled receptor P2Y1 - human
N/Alternate names: P2Y1 purinergic receptor; P2Y1 purinoceptor
C/Species: Homo sapiens (man)
C/Date: 10-May-1996 #sequence_revision 16-Aug-1996 #text_change 17-Nov-2000
C/Accession: JC4737; JC4615; S54253
R/Jaanssens, R.; Communi, D.; Pirotton, S.; Samson, M.; Parmentier, M.; Boeynaems, J.M.
Biochem. Biophys. Res. Commun. 221, 588-593, 1996
A/Title: Cloning and chromosomal localization of the human P2Y1 purinoceptor.
A/Reference number: JC4615; MUID:96158962; PMID:8579591
A/Accession: JC4615
A/Molecule type: mRNA
A/Residues: 1-373 <AVY>
A/Cross-references: GB:S81950; NID:g1839438; PIDN:AA847091.1; PID:g1839439
R/Ayyanathan, K.; Webb, T.E.; Sandhu, A.K.; Athwal, R.S.; Barnard, E.A.; Kunapuli, S.
Biochem. Biophys. Res. Commun. 218, 783-788, 1996
A/Title: Cloning and chromosomal localization of the human P2Y1 purinoceptor.
A/Reference number: JC4737; MUID:96205320; PMID:8630005
A/Accession: JC4737
A/Molecule type: DNA
A/Residues: 1-373 <JAN>
A/Cross-references: GB:S81950; NID:g1839438; PIDN:AA847091.1; PID:g1839439
R/Ayyanathan, K.; Webb, T.E.; Sandhu, A.K.; Athwal, R.S.; Barnard, E.A.; Kunapuli, S.
Biochem. Biophys. Res. Commun. 218, 783-788, 1996
A/Title: Cloning and chromosomal localization of the human P2Y1 purinoceptor.
A/Reference number: JC4615; MUID:96158962; PMID:8579591
A/Accession: JC4615
A/Molecule type: mRNA
A/Residues: 1-373 <AVY>
A/Cross-references: GB:U42029; NID:g1147730; PIDN:AAA97872.1; PID:g1147731
A/Experimental source: erythro leukemia cells
R/Leon, C.; Vial, C.; Cazenave, J.; Gachet, C.
submitted to the EMBL Data Library, May 1995
A/Description: Cloning of a human putative P2Y receptor.
A/Reference number: S54253
A/Accession: S54253
A/Status: preliminary
A/Molecule type: mRNA
A/Residues: 1-137,139-373 <LEO>
A/Cross-references: EMBL:Z49205; NID:g978835; PIDN:CAA89066.1; PID:g978836
C/Comment: This receptor belongs to a family of G protein-coupled receptors. It respon
C/Genetics:
A/Gene: P2Y1; GDB:P2RY1
A/Cross-references: GDB:677125; OMIM:601167
A/Map position: 3pter-3qter
C/Superfamily: ATP receptor P2u
C/Keywords: G protein-coupled receptor; glycoprotein; phosphoprotein; transmembrane pr
F/52-77/Domain: transmembrane #status predicted <TM1>
F/88-111/Domain: transmembrane #status predicted <TM2>
F/124-152/Domain: transmembrane #status predicted <TM3>
F/171-191/Domain: transmembrane #status predicted <TM4>
F/214-237/Domain: transmembrane #status predicted <TM5>

A; Expert
C; Common

T09508

intron 17 purinergic receptor P2Y5 - human
 N:Alternate names: G-protein coupled receptor
 C:Species: Homo sapiens (man)
 C>Date: 16-Jul-1999 #sequence_revision 16-Jul-1999 #text_change 24-Nov-1999
 C:Accession: T09508
 R:Bohm, S.K.; Trumpp, A.; Khitlin, L.M.; Kong, W.; Payan, D.G.; Bunnett, N.W.
 submitted to the EMBL Data Library, April 1997
 A:Description: The human purinergic receptor P2Y5 is encoded in intron 17 of the retinoblastoma gene.
 A:Reference number: Z16705
 A:Accession: T09508
 A:Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: mRNA
 A:Residues: 1-344 <BOR>
 A:Cross-references: EMBL:AF000546; NID:G2232068; PID:G2232069
 C:Genetics:
 A:Map position: 13
 C:Superfamily: ATP receptor P2u
 C:Keywords: G protein-coupled receptor; transmembrane protein

Query Match 17.5%; Score 324; DB 2; Length 344;
 Best Local Similarity 30.8%; Pred. No. 2.3e-22;
 Matches 88; Conservative 56; Mismatches 120; Indels 22; Gaps 10;
 QY 24 VAFVLGALNGVALGCFCHMKTKWPSVYLFNLAVADEFLIMICLPFRDTYLLRRHWAF 83
 DB 26 MVFVLGWSNCVAIYFICLVKRNETHYMINLAMSLLFVFLPFLI-EYFTTRNWP 84
 QY 84 GDIPCRVGLFTLNNRAGSIVFLTVAADRYKVVHPHVAHTISTRVAAGIVCT-LMAL 142
 DB 85 GDLCKLSVMLFYTNMYSILFLTCISVDRLAIVYFES-KTLRTKRNKIVCTGVMLT 143
 QY 143 VILGT--VYLLLENHLCVQETAVSCSFIMESANGHMDIMQL-----EFFMPLGLIL 193
 DB 144 VIGGSAPAVFVQSTHSGQNNASACFENFEAT--WKYLSRIVFIBIVGFIPILNV 201
 QY 194 FCSFKIVSLRRQQLARQARKM-KATRFIMVAIVFTICVLP-SVSARLYFL---WTVP 248
 DB 202 TCSSWMLKTLKPVTLRSKINKYKLVKMFVHLLIFCFCPVYNNILLVSLVQTQFV 261
 QY 249 SSACDPSYHGALHITLSTYNNMMLDPLVYFSSPSFKFYNKLI 294
 DB 262 NCSVVAARVTWYPIFLCIAVSNCCFDPIVYFSDT---IQNSIRM 304

RESULT 8
 A47556
 ATP receptor P2u - mouse
 C:Species: Mus musculus (house mouse)
 C>Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 24-Sep-1999
 C:Accession: A47556
 R:Luustig, K.D.; Shiao, A.K.; Brake, A.J.; Julius, D.
 Proc. Natl. Acad. Sci. U.S.A. 90, 5113-5117, 1993
 A:Title: Expression cloning of an ATP receptor from mouse neuroblastoma cells.
 A:Reference number: A47556; MUID:93281707; PMID:7685114
 A:Accession: A47556
 A:Status: preliminary
 A:Molecule type: mRNA
 A:Residues: 1-373 <LUS>
 A:Cross-references: GB:I14751; NID:G309457; PIDN:AAA39871.1; PID:G309458
 C:Superfamily: ATP receptor P2u
 C:Keywords: transmembrane protein

Query Match 17.3%; Score 320; DB 2; Length 373;
 Best Local Similarity 30.1%; Pred. No. 6e-22;
 Matches 98; Conservative 44; Mismatches 150; Indels 34; Gaps 8;
 QY 4 GSCCRTEGTISQVMPPLIVAPVLGALNGVALGCFCHMKTKWPSVYLFNLAVADEFL 63
 DB 22 GYKCRNEDPKVILLFVPSVGVVCLGLCNVVALYFLCLKLTWASTYMFHLAVSDSL 81
 QY 64 LMICLPFRDYYLLRRSHWAFGDIPCRVGLFTLNNRAGSIVFTVVAADRYKVVHPHHA 123
 DB 82 YAAASLELLVYYARGDHWPFSTVLCKLVRFLEYTNLCVSLFLTCISVHRCGLVRLPLHS 141

QY 124 VNTISTRVAAAGIVCTLWALVILGTVYLLLENHLCVQETAVSCSF-----FIMESAN 174
 DB 142 LRNGRARIARVAAVVWVLVLAQAPVLYFTTISVGRITRCHDTSARELFSHEVAYSS- 200
 QY 175 GMDHIMFQLEFFMPLGLIILFCSFKIVSLRRQ-----LARQARKKATRFIMVVA 226
 DB 201 ----VMLGLLFAVPSVILVC--VYLMARLLKPAYGTGGPRAKR--KSVRTIALVL 251
 QY 227 IVITCTVLP-SVSARLYFLMTVPSSACDP--SVHGALHITLSTYNNMMLDPLVYFSSP 283
 DB 252 AVFALCFLPFHVTRTLYISERSLDSCHTNAINMAYKITRPLASANSCLDPVLYFLAQ 311
 QY 284 SFPKFNKLIKCSLKPQKQPSKQTOR 309
 DB 312 RLVRFARDAK----PPTPTSPQAR 333

RESULT 9
 I51667
 Thrombin receptor - African clawed frog
 C:Species: Xenopus laevis (African clawed frog)
 C>Date: 13-Sep-1996 #sequence_revision 13-Sep-1996 #text_change 21-Jul-2000
 C:Accession: I51667
 R:Gerzsten, R.B.; Chen, J.; Ishii, M.; Ishii, K.; Nanevich, T.; Turck, C.W.; Vu, T.H.;
 Nature 368, 648-651, 1994
 A:Title: Thrombin receptor's specificity for agonist peptide is determined by its extr
 A:Reference number: I51667; MUID:94195429; PMID:8145852
 A:Accession: I51667
 A:Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: mRNA
 A:Residues: 1-420 <GER>
 A:Cross-references: EMBL:U09632; NID:G495197; PIDN:AAA18498.1; PID:G495198

Query Match 16.8%; Score 310.5; DB 2; Length 420;
 Best Local Similarity 28.0%; Pred. No. 5.2e-21;
 Matches 88; Conservative 56; Mismatches 133; Indels 37; Gaps 10;
 QY 14 ISQVMPPLIIVAFVLGALNGVALGCFCHMKTKWPSVYLFNLAVADEFLMCLPFRDT 73
 DB 100 LTKFVPSLYTVFIVGLPLNLLIIFLFKMKVRKPAVVYVYMLNLAIDAVFVSVLPFKIA 159
 QY 74 YVLRHRHAFGDIPCRVGLFTLNNRAGSIVFLTVAADRYKVVHPHVAHTISTRVAA 133
 DB 160 YHLSGNDWLFGEKMCRIVTAFYCNMYSVLIASISVDRLAVVYFESLSW-RTMSRA 218
 QY 134 GIVCT-LMALVILGTVYLL--ENHLCVQETAVSCSFIMESANGHMDIMQ----LEF 185
 DB 219 YMACSFIMLISASTIPLLVTSQTKIPRLDITTCVDVLDKDKDFIYVYFSSFCLLPF 278
 QY 186 FMPLGLIILFCSFKIVSLRRQQLARQARKKATRFIMVVAIVFTIC-----YL 234
 DB 279 FVFPFITTICYGIRSL--SSSSIENCKKTRALFLAVVVLVCFIICFGPTNVLFLTHYL 337
 QY 235 PSVSARLYFLMTVPSSACDPSVHGALHITLSTYNNMMLDPLVYFSSPSFKFYNKLI 294
 DB 338 QEANEFLYPAYIL--SACVGSV-----SCCLDPLIYVYASSQCQRYLSL-L 381
 QY 295 CSLKPKQKQPSKQTO 308
 DB 382 CCRKVSSEPGSSTGQ 395

RESULT 10
 I57940
 somatostatin receptor 5 - rat
 N:Alternate names: somatostatin release-inhibiting factor subtype 28 receptor
 C:Species: Rattus norvegicus (Norway rat)
 C>Date: 02-Aug-1996 #sequence_revision 02-Aug-1996 #text_change 24-Nov-1999
 C:Accession: I57940; S39244
 R:O'Carroll, A.M.; Lolait, S.J.; Konig, M.; Mahan, L.C.
 Mol. Pharmacol. 42, 939-946, 1992
 A:Title: Molecular cloning and expression of a pituitary somatostatin receptor with pr

C;Keywords: G protein-coupled receptor; hormone receptor; transmembrane protein

A;Reference number: I57940; MUID:93125499; PMID:1362243

A;Accession: I57940

A;Status: preliminary; translated from GB/EMBL/DDJ

A;Molecule type: mRNA

A;Residues: 1-363 <OCAL>

A;Cross-references: GB:I04535; NID:9409238; PIDN:AAAI7029.1; PID:g409239

R;O'Carroll, A.M.; Lolait, S.J.; Konig, M.; Mahan, L.C.

Mol. Pharmacol. 44, 1278, 1993

A;Title: Molecular cloning and expression of a pituitary somatostatin receptor with pref

A;Reference number: I57949; MUID:94088493; PMID:8264565

A;Accession: I57949

A;Status: preliminary; translated from GB/EMBL/DDJ

A;Molecule type: mRNA

A;Residues: 341-363 <OCA2>

A;Cross-references: GB:867370; NID:g455947; PIDN:AAAB29371.1; PID:g455948

R;Penetta, R.; Greenwood, M.; Patel, Y.C.

submitted to the EMBL Data Library, August 1993

A;Description: Correction of the nucleotide and amino acid sequence of the rat somatosta

A;Reference number: S39244

A;Accession: S39244

A;Molecule type: mRNA

A;Residues: 329-363 <PEN>

A;Cross-references: EMBL:X74828; NID:g433911; PIDN:CAAS2825.1; PID:g433912

C;Genetics:

A;Gene: SSTR5

C;Superfamily: vertebrate rhodopsin

Query Match 16.7%; Score 309.5; DB 2; Length 363;

Best Local Similarity 29.6%; Pred. No. 5-se-21;

Matches 96; Conservative 53; Mismatches 146; Indels 27; Gaps 9;

QY 17 VMPELLIVAFVGLGNGVLCGFCFHMKTKPSTVYLFNLAVADFLMCLPFRDYYL 76

DB 39 LVEVLIVCTVGLSGNLIIVVLRHAKMTVTNVLNLAVADVLFMLGLPFLATQNA 98

QY 77 RRRHWAFGDIPCRVGLFTLMMNRASIVELTVVADRYFKVHPHVAHVNTISTRVAAGIV 136

DB 99 VVSYWPGSFLCLWTLVDGNGQTSIFCLMWSVDYLVAVHPLRSARWRPRVAKMAS 158

QY 137 CULNALVILGTVYLLLENHLCVQETAVSCSFIMESANGMHDIMFO----LFFFPPLGII 192

DB 159 RAAYVFLMSLPLLV--PADVQEGTGNLSWPEVGLWGAFTYTSVLGFGGLLVI 216

QY 193 LFCSEKIVWSLR---RRQLARQARK-KATRFIMVAIVFTICVLPVSARLYFL-WTV 247

DB 217 CLCYLLIVKVAAGMVGSSRRERSEPKVTRMVMVVLVFGCMLPFFITVINVLAFIL 276

QY 248 PSSACDPSVHGALHITLSFTYMNMSLDPLVYFSSPSPFKYFKLKIC-----SLKP 299

DB 277 PE---EPTSNGLYFFVVLVSYANSCANPLLYGLFSDNFRSKV-LCLRRGYGMEDADA 332

QY 300 KQPGHKTQRPPEMPISNLRGSC 323

DB 333 IEPRDKSRPQ----ATLPRSC 352

RESULT 11

C41795

somatostatin receptor 1 - mouse

C;Species: Mus musculus (house mouse)

C;Date: 30-Sep-1993 #sequence_revision 31-Dec-1993 #text_change 24-Nov-1999

C;Accession: C41795

R;Yamada, Y.; Post, S.R.; Wang, K.; Tager, H.S.; Bell, G.I.; Seino, S.

Proc. Natl. Acad. Sci. U.S.A. 89, 251-255, 1992

A;Title: Cloning and functional characterization of a family of human and mouse somatost

A;Reference number: A41795; MUID:92108031; PMID:1346068

A;Accession: C41795

A;Status: nucleic acid sequence not shown

A;Molecule type: DNA

A;Residues: 1-391 <YAM>

A;Cross-references: GB:M81831; NID:g201058; PIDN:AAAS8255.1; PID:g201059

C;Superfamily: vertebrate rhodopsin

Query Match 16.6%; Score 307; DB 2; Length 391;

Best Local Similarity 25.7%; Pred. No. 1e-20;

Matches 85; Conservative 62; Mismatches 130; Indels 54; Gaps 9;

QY 4 GSCRIEED-----TISQMPPLLIIVAFV-----LGALNGVLCGFC 40

DB 24 GACSRGPGSGAAGDGMERPPGRNASQMTLSEQGSAILISFIYSVCLVGLCGNSWYIV 83

QY 41 CFEMTKWKPSTVYLFNLAVADFLMCLPFRDYYLRRRHWAFGDIPCRVGLFTLAMNRA 100

DB 84 LRYAKMTATNITLNLAIADDELLMSVFFLVSTL-LRHWPFGALLCRLVSLVDVANNMF 142

QY 101 GSIIVELTVVADRYFKVHPHVAHVNTISTRVAAGIVCTLMAVILGTVYLLLENHLCV-Q 159

DB 143 TSIYCLIVLSVDYRYAVVHPVPIKAAARYRPTVAKVNLGVNLVSLVILVIFVSRTAANS 202

QY 160 ETAVSCSFIMESANGMHD-----IMFQLEFPMPLGIIILFC-----SEKIVWSLR 204

DB 203 DGTVACNMLPEPAQRMLVGVFLYITFLMGFLPLVGAICLCVYVLIIAKRMVAKAGWQOR 262

QY 205 RRQLARQARKKATRFIMVAIVFTICVLPVSARLYFLWTVPSACDPSVHGALHITL 264

DB 263 KRSE-----RKITLVMVMVMVWFVCMPPYVVLVNVVFAEQDQAT-----VSQLSV 309

QY 265 SFTYMNMSLDPLVYFSSPSPFKYFKLKIC 295

DB 310 ILGYANSCANPLLYGLFSDNFRSKVQRI-LC 339

RESULT 12

A41795

somatostatin receptor 1 - human

C;Species: Homo sapiens (man)

C;Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change 24-Nov-1999

C;Accession: A41795

R;Yamada, Y.; Post, S.R.; Wang, K.; Tager, H.S.; Bell, G.I.; Seino, S.

Proc. Natl. Acad. Sci. U.S.A. 89, 251-255, 1992

A;Title: Cloning and functional characterization of a family of human and mouse somatos

A;Reference number: A41795; MUID:92108031; PMID:1346068

A;Accession: A41795

A;Molecule type: DNA

A;Residues: 1-391 <YAM>

A;Cross-references: GB:M81829; NID:g307433; PIDN:AAAS8247.1; PID:g307434

A;Note: sequence extracted from NCBI backbone (NCBIN:74767, NCBI:P:74768)

C;Genetics:

A;Gene: GDB:SSTR1

A;Cross-references: GDB:134185; OMIM:182451

A;Map position: 14q13-14q13

A;Introns: #status absent

C;Superfamily: vertebrate rhodopsin

C;Keywords: G protein-coupled receptor; glycoprotein; hormone receptor; lipoprotein; ph

F;58-84/Domain: transmembrane #status predicted <TM1>

F;95-120/Domain: transmembrane #status predicted <TM2>

F;132-153/Domain: transmembrane #status predicted <TM3>

F;173-195/Domain: transmembrane #status predicted <TM4>

F;220-250/Domain: transmembrane #status predicted <TM5>

F;269-306/Domain: transmembrane #status predicted <TM6>

F;302-326/Domain: transmembrane #status predicted <TM7>

F;444,48,381/Binding site: carbohydrate (Asn) (covalent) #status predicted

F;130-208/Disulfide bonds: #status predicted

F;172/Binding site: phosphate (Thr) (covalent) (by CAMP-dependent kinase) #status predi

F;265/Binding site: phosphate (Ser) (covalent) (by CAMP-dependent kinase) #status predi

F;339/Binding site: palmitate (Cys) (covalent) #status predicted

Query Match 16.5%; Score 305.5; DB 2; Length 391;

Best Local Similarity 26.3%; Pred. No. 1.4e-20;

Matches 81; Conservative 62; Mismatches 128; Indels 37; Gaps 8;

QY 10 EGDITISQVMPPLLIIVAFV-----LGALNGVLCGFCFHMKTKPSTVYLFNLAVADFL 63

DB 47 QNGTLSEQGSAILISFIYSVCLVGLCGNSWYIVILRYAKMTATNITVILNLIADEL 106

Search completed: June 30, 2004, 17:23:53
Job time : 23 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: July 3, 2004, 03:49:46 ; Search time 4415 Seconds
(without alignments)
10190.276 Million cell updates/sec

Title: US-10-076-260-1

Perfect score: 1038

Sequence: 1 atgtacacgggtcgtctgtg.....ccacattgttgagtggtgcac 1038

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 3470272 seqs, 21671516995 residues

Total number of hits satisfying chosen parameters: 6940544

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

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3: gb.in.*

4: gb.om.*

5: gb.ov.*

6: gb.pat.*

7: gb.ph.*

8: gb.pl.*

9: gb.pr.*

10: gb.ro.*

11: gb.sts.*

12: gb.sy.*

13: gb.un.*

14: gb.vi.*

15: em.ba.*

16: em.fun.*

17: em.hum.*

18: em.in.*

19: em.mu.*

20: em.om.*

21: em.or.*

22: em.ov.*

23: em.pat.*

24: em.ph.*

25: em.pl.*

26: em.ro.*

27: em.sts.*

28: em.un.*

29: em.vi.*

30: em.htg_hum.*

31: em.htg_inv.*

32: em.htg_other.*

33: em.htg_mus.*

34: em.htg_pln.*

35: em.htg_rnd.*

36: em.htg_mam.*

37: em.htg_vrt.*

38: em.sy.*

39: em.htgo_hum.*

40: em.htgo_mus.*

41: em.htgo_other.*

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
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2	1038	100.0	1038	6	BD140826	BD140826 Novel G P
3	1038	100.0	1041	6	AX147834	AX147834 Sequence
4	1038	100.0	1041	6	AX148182	AX148182 Sequence
5	1038	100.0	1041	6	AX299705	AX299705 Sequence
6	1038	100.0	1041	6	AX375434	AX375434 Sequence
7	1038	100.0	1041	6	AX521883	AX521883 Sequence
8	1038	100.0	1041	6	AX675169	AX675169 Sequence
9	1038	100.0	1041	6	BD144279	BD144279 Novel G-P
10	1038	100.0	1041	9	AB083631	AB083631 Homo sapi
11	1038	100.0	1041	9	AF411110	AF411110 Homo sapi
12	1038	100.0	1050	6	AX338373	AX338373 Sequence
13	1038	100.0	1083	6	AX305131	AX305131 Sequence
14	1038	100.0	1083	6	AX549382	AX549382 Sequence
15	1038	100.0	1372	6	AX305131	AX305131 Sequence
16	1038	100.0	1441	9	AB065866	AB065866 Homo sapi
17	1038	100.0	1730	6	AX277635	AX277635 Sequence
18	1038	100.0	2331	6	AX299707	AX299707 Sequence
19	1038	100.0	2345	9	AF385432	AF385432 Homo sapi
20	1038	100.0	3612	9	AF385431	AF385431 Homo sapi
21	1038	100.0	204793	9	AC026333	AC026333 Homo sapi
22	1036.4	99.8	1041	6	AX395171	AX395171 Sequence
23	1036.4	99.8	1194	6	AX395169	AX395169 Sequence
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25	1034.8	99.7	1104	6	AX338374	AX338374 Sequence
26	888	85.5	888	6	AX147766	AX147766 Sequence
27	888	85.5	888	6	AX521815	AX521815 Sequence
28	724.4	69.8	1668	6	AX592621	AX592621 Sequence
29	722.8	69.6	3251	6	AX592619	AX592619 Sequence
30	722.8	69.6	256368	2	AC122753	AC122753 Mus muscu
31	721.2	69.5	238844	2	AC097683	AC097683 Rattus no
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33	402.8	38.8	1254	6	AX704524	AX704524 Sequence
34	372.4	35.9	1174	6	AX384661	AX384661 Sequence
35	372.4	35.9	1295	9	AY148884	AY148884 Homo sapi
36	372.4	35.9	1361	6	BD133032	BD133032 HM74 rece
37	369.2	35.6	1092	6	AX148194	AX148194 Sequence
38	369.2	35.6	1492	6	AB083632	AB083632 Homo sapi
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40	369.2	35.6	1492	9	AB065876	AB065876 Homo sapi
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42	367.6	35.4	1092	6	AX704522	AX704522 Sequence
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44	367.6	35.4	1564	9	AB065865	AB065865 Homo sapi
45	367.6	35.4	2049	9	BC038955	BC038955 Homo sapi

ALIGNMENTS

RESULT 1
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DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL

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Sequence 1 from Patent WO02083736.
AX592617
AX592617.1 GI:28144739
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Elliot, S.G., Rogers, N. and Busse, L.A.
G-protein coupled receptor molecules and uses thereof
Patent: WO 02083736-A 1 24-OCT-2002;

1038 bp
DNA
linear
PAT 28-JAN-2003

Pred. No. is the number of results predicted by chance to have a

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Amgen, Inc. (US)
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        /codon_start=1
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        /db_xref="GI:28144740"
        /db_xref="PDB:1A4740"
        /translation="MINGSCTRIEDTISQVMPPLIIVFVLGALNGVALCGFCFHM
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TAVSCGESFIMSGMHDIMPOLFEPFLGILIPCSKIVLSLRRLRQQLARQARKKA
TRFTMVAVIPIITCLPSVSLARLVFLWTPSSACDPSVHGLHILFTFTNWSMLDPL
VYTFSSPSFPKFNKLCISLKPQGHSTQRFPEMPISNLGRHSICISVANSFSQS
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ORIGIN
  Query Match 100.0%; Score 1038; DB 6; Length 1038;
  Best Local Similarity 100.0%; Pred. No. 1.3e-254;
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  QY 181 GAATTCCTCTTATGATCGCTGCTTTTGGACAGACATATTAATCTCAGACGTAGACAC 240
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Db      721  CTCTATTTCCTCTGACCGGTGCTCTGAGTGCCTCGCATCCCTCTGTCCATCGGGCCCTG 780
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Db      1021  CACATTGTTGAGTGGCAC 1038

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LOCUS      AX148182      1041 bp      DNA      linear      PAT 08-JUN-2001
DEFINITION Sequence 23 from Patent WO0136471.
ACCESSION  AX148182
VERSION     AX148182.1  GI:14347084
KEYWORDS
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE
1  Chen, R., Dang, H.T. and Lowitz, K.P.
   Endogenous and non-endogenous versions of human g protein-coupled
   receptors
   Patent: WO 0136471-A 23 25-MAY-2001;
   Arena Pharmaceuticals, Inc. (US)
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Query Match      100.0%; Score 1038; DB 6; Length 1041;
Best Local Similarity 100.0%; Pred. No. 1.3e-254;
Matches 1038; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  ATGTACACGGTCTGTGTCGCGCATCGAGGGGACACCATCTCCAGGTGATGCGCG 60
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Qy      121  TGCTTCCACATGAAGACCTTGGAGGCCAGCACTGTTTACCTTTTCAATTTGGCGTGGCT 180
Db      121  TGCTTCCACATGAAGACCTTGGAGGCCAGCACTGTTTACCTTTTCAATTTGGCGTGGCT 180
Qy      181  GATTTCCTCTTATGATCTGCTGCTTTTCGACAGACTATTAATCTCAGAGTAGACAC 240
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Qy      241  TGGGCTTTTGGGACATTCCTTCCGAGTGGGCTCTTCAGCTTGGCCATGACAGGCC 300

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Db      301  GGGAGCATGTGTTCCTTTACGGTGTGTGCTCGGACAGGTATTTCAAAGTGTGTCCACCC 360
Qy      361  CACCACGGGTGGAACACTATCTCCACCGGGTGGGCTGGCATCTGTCTGACCTGTGG 420
Db      361  CACCACGGGTGGAACACTATCTCCACCGGGTGGGCTGGCATCTGTCTGACCTGTGG 420
Qy      421  GCCCTGTGTATCTCTGGGAAACAGTGTATCTTTTGTGGAGAACATCTCTGCTGCAAG 480
Db      421  GCCCTGTGTATCTCTGGGAAACAGTGTATCTTTTGTGGAGAACATCTCTGCTGCAAG 480
Qy      481  ACGGCGGTCTCTCTGTGAGAGTTTCATCATGAGTGGCCATATGGCTGGCATCATG 540
Db      481  ACGGCGGTCTCTCTGTGAGAGTTTCATCATGAGTGGCCATATGGCTGGCATCATG 540
Qy      541  TTCCAGCTTGGAGTTCTTTATGCCCTCGGCATCATCTTATTTTGTCTCTCAAGATTGT 600
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Db      841  TCAAGCCCTCTCTTCCCAATTTCTACAAAGCTCCTCAAAATCTGCACTCTGAACCCAG 900
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Db      901  CAGCAGGACACTCAAAAACAAAGCCGGAAGAGATGCCAATTTCAACCTCGTCTGC 960
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Qy      1021  CACATTGTTGAGTGGCAC 1038
Db      1021  CACATTGTTGAGTGGCAC 1038

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LOCUS      AX299705      1041 bp      DNA      linear      PAT 26-NOV-2001
DEFINITION Sequence 1 from Patent WO0173029.
ACCESSION  AX299705
VERSION     AX299705.1  GI:17129250
KEYWORDS
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE
1  Ye, J.C., Cravchik, A.C., di Francesco, V.C. and Beasley, E.M.
   Isolated human g-protein coupled receptors, nucleic acid molecules
   encoding human gpcr proteins, and uses thereof
   Patent: WO 0173029-A 1 04-OCT-2001;
   PE Corporation (NY) (US)
FEATURES
Location/Qualifiers

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Query Match 100.0%; Score 1038; DB 6; Length 1041;
Best Local Similarity 100.0%; Pred. No. 1.3e-254;
Matches 1038; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGTACAAAGGGTCTGCTGCGCATCGAGGGGACACCATCTCCAGGTATGCCGCG 60
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ORIGIN
Query Match 100.0%; Score 1038; DB 6; Length 1041;
Best Local Similarity 100.0%; Pred. No. 1.3e-254;
Matches 1038; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 8
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DEFINITION
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ACCESSION
AX675169.1 GI:293333412
VERSION
KEYWORDS
SOURCE
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ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 Bhatia,U., Jones,C.B., Bouhelal,R., Senwen,K. and Tenailon,L.
AUTHORS
Novel G protein-coupled receptors and dna sequences thereof
JOURNAL
Patent: WO 03002604-A 5 09-JAN-2003;
Novartis AG (CH)
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Location/Qualifiers
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Best Local Similarity 100.0%; Pred. No. 1.3e-254;
Matches 1038; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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BD144279 1041 bp DNA linear PAT 17-JAN-2003
Novel G-protein coupled receptors.
BD144279
BD144279.1 GI:27850037
JP 2002112793-A/4.
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 1041)
Haga,T., Takeda,S. and Miyake,N.
Novel G-protein coupled receptors
Patent: JP 2002112793-A 4 16-APR-2002;
JAPAN SCIENCE AND TECHNOLOGY CORP
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PN JP 2002112793-A/4
PD 16-APR-2002
PF 09-FEB-2001 JP 2001034434
PI TATSUYA HAGA, SHIGEKI TAKEDA, NARIKI MIYAKE
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FH Key Location/Qualifiers
FT CDS
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ORIGIN
Query Match 100.0%; Score 1038; DB 6; Length 1041;

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Best Local Similarity 100.0%; Pred. No. 1.3e-254; Matches 1038; Conservative 0; Mismatches 0; Indels 0; Gaps 0;									
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QY	121	TGCTTCCACATGAAGACCTGGAAGCCGAGACCTGTTTACCTTTCAATTTGGCCGTGGCT	180						
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QY	241	TGGGCTTTTGGGACATTCCTGCGAGTGGGGCTCTTCAGTTGGCCATGAACAGGCC	300						
Db	241	TGGGCTTTTGGGACATTCCTGCGAGTGGGGCTCTTCAGTTGGCCATGAACAGGCC	300						
QY	301	GGGAGCATCTGTTCCCTAGCTGGTGGCTGCGGACAGGTATTTCAAAGTGTCCACCCC	360						
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Homo sapiens GPCR gene for putative G-protein coupled receptor,
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AB083631.1 GI:20152325
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Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1
Takeda, S., Kadowaki, S., Haga, T., Takaesu, H. and Mitaku, S.
Identification of G protein-coupled receptor genes from the human
genome sequence
Unpublished
2 (bases 1 to 1041)
Takeda, S., Kadowaki, S., Haga, T., Takaesu, H. and Mitaku, S.
Direct Submission
Submitted (10-APR-2002) Shigeki Takeda, Gunma University,
Department of Biological and Chemical, Engineering, Faculty of
Engineering, 1-5-1, Kiryu, Gunma 376-8515, Japan
(E-mail:stakeda@bce.gunma-u.ac.jp, Tel:+81-277-30-1434,
Fax:+81-277-30-1434)
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ACCESSION AF411110
VERSION AF411110.1 GI:16566325
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SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 1041)
Lee,D.K., Nguyen,T., Lynch,K.R., Cheng,R., Vanti,W.B., Arkhitko,O.,
Lewis,T., Evans,J.F., George,S.R. and O'Dowd,B.F.
TITLE Discovery and mapping of ten novel G protein-coupled receptor genes
JOURNAL Gene 275 (1), 83-91 (2001)
MEDLINE 21458557
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2 (bases 1 to 1041)
Lee,D.K., Nguyen,T., Lynch,K.R., Cheng,R., Vanti,W.B., Arkhitko,O.,
Lewis,T., Evans,J.F., George,S.R. and O'Dowd,B.F.
TITLE Direct Submission
JOURNAL Submitted (17-AUG-2001) Department of Pharmacology, University of
Toronto, 8 Raddle Creek Rd. Rm. 4353, Toronto, Ont M5S 1A8, Canada
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ORGANISM      Homo sapiens
               Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
               Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
AUTHORS       Majumder, K., Vernet, C.A., Casman, S.J., Wolenc, A.R., Spaderna, S.K.,
               Padigaru, M., Mishra, V.S., Tchernev, V.T., Spytek, K.A., Li, L.,
               Baumgartner, J.C. and Gusev, V.V.
               Novel proteins and nucleic acids encoding same
               Patent: WO 0174904-A 3 11-OCT-2001;
               Curagen Corporation (US)
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REFERENCE
AUTHORS       Patterson, C., Lu, D.A., Thornton, M., Lu, Y., Tribouley, C.M.,
               Graul, R., Khan, F.A., Gandhi, A.R., Wallia, N.K., Nguyen, D.B., Yue, H.,
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               G-protein coupled receptors
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Best Local Similarity 100.0%; Pred. No. 1.3e-254;
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Db	682	TTCCAGCTGGAGTCTTTTATGCCCCCTCGGCATCATCTTATTTTGTCTCTTCAAGATTGT	741
QY	601	TGGAGCTGAGCGGAGGAGCAGCTGGCCAGACAGGCTCGGATGAGAGGCGACCCCG	660
Db	742	TGGAGCTGAGCGGAGGAGCAGCTGGCCAGACAGGCTCGGATGAGAGGCGACCCCG	801
QY	661	TTTCATCATGCTGGTGGCAATTTGTGTTCATCATGCTACCTGCCAGCGTGTCTGTAGA	720
Db	802	TTTCATCATGCTGGTGGCAATTTGTGTTCATCATGCTACCTGCCAGCGTGTCTGTAGA	861
QY	721	CTCTATTTCCTCTGGAACGGTGGCTCGAGTGGCTGGCATCCCTCTGTCTCATGGGCGCTG	780
Db	862	CTCTATTTCCTCTGGAACGGTGGCTCGAGTGGCTGGCATCCCTCTGTCTCATGGGCGCTG	921
QY	781	CACATAACCTCAGCTTCACTTACATGAAACAGCATGCTGGATCCCTGGTGTATTATTTT	840
Db	922	CACATAACCTCAGCTTCACTTACATGAAACAGCATGCTGGATCCCTGGTGTATTATTTT	981
QY	841	TCAGCCCTCTCTTCCCAATTTCTACACAGCTCMAAATCTGCAAGTCTGAAACCCCAAG	900
Db	982	TCAGCCCTCTCTTCCCAATTTCTACACAGCTCMAAATCTGCAAGTCTGAAACCCCAAG	1041
QY	901	CAGCCAGGACACTCAAAAACACAAAGCGCGAGAGATGCCAATTTTCAAGTCTGCGTGC	960
Db	1042	CAGCCAGGACACTCAAAAACACAAAGCGCGAGAGATGCCAATTTTCAAGTCTGCGTGC	1101

Qy 961 AGGAGTTGCATCAGTGTGGCAATACATTTCCAAAGCCAGTCTGATGGGCAATGGGATCCC 1020
Db 1102 AGGAGTTGCATCAGTGTGGCAATAGTTTCCAAAGCCAGTCTGATGGGCAATGGGATCCC 1161
Qy 1021 CACATTGTTGAGTGGCAC 1038
Db 1162 CACATTGTTGAGTGGCAC 1179

Search completed: July 3, 2004, 07:48:28
Job time : 4423 secs